



BIOLOGY

BOOKS - UNIVERSAL BOOK DEPOT 1960 BIOLOGY (HINGLISH)

ANIMAL KINGDOM

Animal Kingdom

1. Larva is found in

- A. Vertebrates
- B. Invertebrates
- C. Both (a) and (b)
- D. None of these

Answer: C



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2. Poikilotherms are also known as

- A. Isotherm
- B. Ectotherm
- C. Endotherm
- D. Heterotherm

Answer: B



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3. Animals/ organisms floating on the surface of water are

- A. Plankton
- B. Pelagic
- C. Benthon

D. Neritic

Answer: A



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4. The body of the animal can be divided into identical halves in only one plane is

- A. Asymmetry
- B. Bilateral symmetry
- C. Radial symmetry
- D. Biradial symmetry

Answer: B



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5. Radial symmetry occurs in

- A. Fishes
- B. Molluscs
- C. Star fishes
- D. Sponges

Answer: C



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6. The space between body wall and elementary canal lined by mesoderm is called

- A. Acoelom
- B. Pseudocoelom
- C. Coelom
- D. None of these

Answer: C



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7. In coelomates, the problem of diffusion of food from gut to tissues is solved by

- A. The presence of coelomic fluid
- B. Churning the food within the body cavity
- C. Developing a circulatory system
- D. Developing gut associated glands

Answer: C



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8. Trochophore larve occurs in

- A. Annelida and Porifera
- B. Coelenterata and Annelida
- C. Mollusca and coelenterata
- D. Annelida and Mollusca

Answer: D

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9. An animal which comes out at night and hides during day time is

- A. Diurnal
- B. Nocturnal
- C. Cursorial
- D. Arboreal

Answer: B

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10. Parasites capable of living without a host are called

- A. Facultative
- B. Permanent
- C. Obligate
- D. None of these

Answer: A



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11. Enterocoelous coelom is found in

- A. Deuterostomia
- B. Astomia
- C. Protostomia

D. Blastostomia

Answer: A



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12. Non - chordates have

A. Notocord

B. Dorsal tubular nerve chord

C. Pharyngeal gills cleft

D. Absence of hepatic portal system

Answer: D



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13. Cell aggregate plan is found in

A. Cnidarians

B. Sponges

C. Roundworms

D. Flatworms

Answer: B

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14. Which of the following statements is false

A. Male roundworm is smaller than female

B. Earthworms are hermaphrodite

C. Echinoderms are protostomous coelomates

D. Human teeth are anatomically comparable to scales of shark

Answer: C

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15. Which of the following phylum are included in enterozoa

- A. Annelida , Mollusca, Porifera
- B. Echinodermata, Hemichordata, porifera
- C. Mollusca, Arthropoda, Hemichordata
- D. Porifera, Mollusca, Arthropoda

Answer: C



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16. Tube-within-a-Tube body plan is shown by

- A. Coelenterates
- B. Platyhelminthes
- C. Aschelminthes(Nemathelminthes)

D. Porifers

Answer: C



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17. Cold - blooded animals fall under the category of

A. Ectotherms

B. Psychrotherms

C. Endotherms

D. Thermophiles

Answer: A



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18. Blind sac body plan is shown by

A. Roundworms

B. Annelids

C. Coelenterates

D. Arthropods

Answer: C



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19. What is characteristic of deuterostomes

A. Spiral cleavage, blastopore becoming mouth

B. Radial cleavage, blastopore becoming anus

C. Spiral cleavage, blastopore becoming anus

D. Radial cleavage, blastopore becoming mouth

Answer: B



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20. Mouth develops first in the embryo and anus is formed later in

- A. Deuterostomes
- B. Protostomes
- C. Echinoderms
- D. Chordates

Answer: B



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21. Which of these statements are incorrect (1)Parapodia are lateral appendages in arthropods used for swimming

(2)Radula in molluscs are structures involved in excretion

(3) Aschelminthes are dioecious

(4) Enchinoderm adults show radial symmetry

(5) Ctenosporans are diploblastic

A. (1) and (2)

B. (1) and (3)

C. (1),(4) and (5)

D. (3) and (5)

Answer: A

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22. In which triploblastic animal coelom is absent

A. Platyhelminthes

B. Aschelminthes

C. Annelida

D. Arthropoda

Answer: A

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23. On the basis of organisation, animals are grouped into

- A. Metozoa and Eumetazoa
- B. Protozoa and Metazoa
- C. Protozoa and Parazoa
- D. Parazoa and Metazoa

Answer: B



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24. Radial symmetry occurs in

- A. Porifera and Coelenterata
- B. Coelenterata and Echinodermata
- C. Coelenterata and Platyhelminthes

D. Arthropoda and Mollusca

Answer: B



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25. Coelom produced by splitting of mesoderm is

A. Hydrocoel

B. Enterocoel

C. Schizocoel

D. None of these

Answer: C



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26. Which one of the following does not have larvae in its life cycle

- A. Prawn
- B. Earthworm
- C. Crab
- D. Cockroach

Answer: B

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27. Coelom is cavity between alimentary canal and body wall enclosed by

- A. Ectoderm and endoderm
- B. Mesoderm and ectoderm
- C. Ectoderm on both sides
- D. Mesoderm on both sides

Answer: D

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28. Tiny free living animals on the surface of water constitute

- A. Zooplankton
- B. Phytoplankton
- C. Benthon
- D. Symbionts

Answer: A



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29. From the following statements select the wrong one

- A. Millipedes have two pairs of appendages in each segment of the body
- B. Prawn has two pairs of antennae

C. Animals belonging to phylum porifera are exclusively

D. Nematocysts are characteristic of the phylum cnidaria

Answer: C



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30. An enterocoelomates invertebrate group is

A. Annelida

B. Echinodermata

C. Arthropoda

D. Mollusca

Answer: B



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31. Schizocoelomates and enterocoelomates are

- A. Acoelomates
- B. True coelomates
- C. Invertebrates
- D. Echinoderms only

Answer: B



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32. Metameric segmentation is the characteristic of

- A. Annelida and Arthropoda
- B. Molluscs and chordata
- C. Platyhelminthes and Arthropoda
- D. Echinodermata and Annelida

Answer: A



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33. A radially symmetrical diploblastic animal is

- A. Roundworm
- B. Earthworm
- C. Hydra
- D. Liver Fluke

Answer: C



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34. Radial symmetry is often exhibited by animals having

- A. one opening of alimentary canal

- B. Aquatic mode of living
- C. Benthos// sedentary nature
- D. Ciliary mode of feeding

Answer: C



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35. Arboreal mammals have

- A. Jumping character
- B. Burrowing character
- C. Climbing character
- D. Flying character

Answer: C



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36. In contrast to annelids the Platyhelminthes show

- A. Radial symmetry
- B. Presence of pseudocoel
- C. Bilateral symmetry
- D. Absence of body cavity

Answer: D



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37. Animal with pseudocoelom is

- A. Amia//Leech
- B. Lepisma//Liver Fluke
- C. Dragon Fly // Jelly Fish
- D. Wuchereria//Hookworm

Answer: D



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38. Pseudocoelum develops form

- A. Blastopore lip
- B. Archenteron
- C. Embryonic mesoderm
- D. Blastocoel

Answer: D



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39. A true coelom is absent in phylum or Which of the following is pseudocoelomate

A. Nematoda

B. Annelida

C. Echinodermata

D. Mollusca

Answer: A



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40. True coelom or body cavity occurs in

A. Hydra

B. Taenia

C. Pheretima

D. Sycon

Answer: C



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41. Veliger larva occurs in phylum

- A. Mollusca
- B. Echinodermata
- C. Arthropoda
- D. Cnidaria

Answer: A



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42. Cell-tissue organisation occurs in

- A. Liver fluke
- B. Sponge
- C. Hydra

D. Star fish

Answer: C



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43. A list of animals is given below. Identify the animals with open circulatory system and choose the correct answer. (A) Acidia (B) Cockroach (C) Earthworm (D) Prawn (E) Silverfish (F) Snail (G) Squid

A. B,D,F

B. A, B, D, F

C. C, D, E, G

D. B, D, E, F

Answer: D



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44. Besides Annelia and Arthropoda metamerism is found in

A. Cestoda

B. Acanthocephala

C. Chordata

D. Mollusca

Answer: C



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45. Organisms attached to substratum generally possesses

A. Asymmetrical body

B. Radial symmetry

C. One single opening of digestive canal

D. Cilia on the surface to create water current

Answer: B



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46. Which one of the following categories of animals, is correctly described with no single exception in it ?

- A. All reptiles posses scales, have a three chambered heart and are cold blooded (poikilothermal)
- B. All bony fishes have four pairs of gills and an operaculum on each side
- C. All sponges are marine and have collared cells
- D. All mammals are vivparous and posses diaphragm for breathing

Answer: B



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47. Tissues are absent in the body of

- A. Sponge
- B. Annelida
- C. Platyhelminthes
- D. Arthropoda

Answer: A



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48. Which is not correct for sponges?

- A. Internal fertilization
- B. External fertilization
- C. Gemmule formation
- D. Gametes are formed from epidermal cells

Answer: B



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49. Ostia is present in

- A. Poriferans
- B. Coelenterates
- C. Annelids
- D. Mollusca

Answer: A



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50. In porifera, skeleton forming cells are

- A. Sclerocytes
- B. Archaeocytes
- C. Thesocytes

D. Amoebocytes

Answer: A



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51. Glass Rope sponge is

A. Hyalonema

B. Euplectella

C. Scypha

D. Spongilla

Answer: A



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52. Sponges structure corresponding to mouth of other animals is

- A. Incurrent canal
- B. Ostium
- C. Osculum
- D. Excurrent canal

Answer: B

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53. The most distinctive character of sponge is

- A. Presence of choanocytes
- B. Unicellular
- C. Marine
- D. Asexual reproduction

Answer: A

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54. Canal system is a characteristic of

- A. Hydra
- B. Sponge
- C. Sea anemone
- D. Sea urchin

Answer: B



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55. Common bath sponge is

- A. Spongilla
- B. Euspongia
- C. Leucosolenia

D. Sycon

Answer: B



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56. Body having meshwork of cell, internal cavities lined with food filtering flagellated cells and indirect development are the characteristics of phylum

A. Porifera

B. Mollusca

C. Protozoa

D. Coelenterate

Answer: A



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57. In Leucosolenia, digestion takes place in the

- A. Paragastric cavity
- B. Stomach
- C. Osculum
- D. Food vacuole

Answer: D



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58. Parenchymula (sponges free swimming larva) is the larva of

- A. Hydra
- B. Ascaris
- C. Pheretima
- D. Leucosolenia

Answer: D



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59. Sponges are

- A. Sessile
- B. Planktonic
- C. Free-swimming
- D. Pelagic

Answer: A



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60. Which sponge is given as a gift in Japan

- A. Hyalonema

B. Euplectella

C. Tethya

D. Leucosolenia

Answer: B



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61. Water currents in Leucosolenia are produced by

A. Choanocytes

B. Pinacocytes

C. Archaeocytes

D. Thesocytes

Answer: A



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62. Members of phylum porifera are

- A. Exclusively marine animals
- B. Exclusively fresh water animal
- C. Mostly fresh water animals but few are marine animals
- D. Mostly marine animals but few are fresh water animals

Answer: D



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63. Which sponge is found in the river

- A. Cliona
- B. Spongilla
- C. Sycon
- D. Hyalonema

Answer: B



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64. What is found in a sponge

- A. Choanocytes
- B. Nematocytes
- C. Amoebocytes
- D. Both (a) and (c)

Answer: D



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65. which of the following is boring sponge or A sponge harmful to oyster industry is

- A. Cliona
- B. Chalina
- C. Euplectella
- D. Hyalonema

Answer: A

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66. Identify the names of the following figure from the given



- A. A B C
Euspongia Sycon Spongilla
- B. A B C
Spongill Sycon Eusporangia
- C. A B C
Euspongia Spongilla Sycon
- D. A B C
Sycon Euspongia Spongilla

Answer: D

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67. Classification of Phylum Porifera is based on

- A. Nutrition
- B. Spicules
- C. Locomotion
- D. Reproduction

Answer: B

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68. Amphiblastula is the larva of

- A. Hydra
- B. Sycon
- C. Planaria

D. Leucosolenia

Answer: B



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69. What is left, when bathsponges dries up

A. Spicules

B. Holdfast

C. Tentacles

D. Spongin fibres

Answer: D



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70. What will happen if a sponge is cut into maximum possible pieces

- A. These will die
- B. These will difference
- C. Every piece will form a sponge
- D. Some pieces will develop in organs

Answer: C

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71. Which of the following cell type is capable giving rise to other cell type in sponges or Reproductive cells of sponges are formed from

- A. Archaeocytes
- B. Collenocytes
- C. Thesocytes
- D. Pinacocytes

Answer: A

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72. Spongin fibres are secreted by

- A. Choanocytes
- B. Pinacocytes
- C. Amoebocytes
- D. Spongioblasts

Answer: D

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73. The middle layer in body wall of porifera is or The non-cellular layer present between pinacoderm and choanoderm in body wall of poriferans is known as

- A. Mesoderm

B. Mesenchyme

C. Mesogloea

D. Mesentery

Answer: B



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74. Sponges capture food particles with the help up or Feeding in sponges takes place through

A. Choanocytes

B. Pinacocytes

C. Thesocytes

D. Trophocytes

Answer: A



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75. Which of the following feature is universally present in all sponges

- A. Marine habitat
- B. Presence of spicules
- C. Presence of spongin fibres
- D. Presence of spongiocoel

Answer: D



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76. Spicules of silica occur in

- A. Hyalonema
- B. Sycon
- C. Leucosolenia
- D. Grantia

Answer: A



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77. In most simple type of canal system of porifera, water flows through which one of the following ways

- A. Ostia rarr Spongocoel rarr Osculum rarr Exterior
- B. Spongocoel rarr Ostia rarr Osculum rarr Exterior
- C. Osculum rarr Spongocoel rarr Ostia rarr Exterior
- D. Osculum rarr Ostia rarr Spongocoel rarr Exterior

Answer: A



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78. Which of the following is not a characteristic feature of sponges?

A. Cellular level of organization

B. Presence of ostia

C. Intracellular digestion

D. Body supported by chitin

Answer: D



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79. Internal asexual propagule of some fresh water sponges is or internal bud for overcoming unfavaourable conditions in leucosolenia is

A. Gemmule

B. Planula

C. Stereoblastula

D. Amphiblastula

Answer: A

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80. Skeleton made of spongin fibres occurs in

- A. Calcarea
- B. Demospongiae
- C. Hexactinellida
- D. Both (a) and (b)

Answer: B

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81. Digestion of food occurs in sponges *Leucosolenia* in

- A. Spongocoel
- B. Choanocytes followed by amoebocytes
- C. Amoebocytes

D. Choanocytes

Answer: B



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82. Venus Flower Basket belongs to phylum

A. Porifera

B. Coelenterata

C. Echinodermata

D. Mollusca

Answer: A



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83. Spicules are found in

- A. Hydra
- B. Planaria
- C. Sycon
- D. Obelia

Answer: C

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84. Sponges are porifers because their bodies have

- A. Spicules in skeleton
- B. Several pores
- C. Canal system
- D. All the above

Answer: B

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85. Nerve cells do not occur in

- A. Nematodes
- B. Mosquitoes
- C. Sponges
- D. Coelenterates

Answer: C



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86. Bath sponges in generally found in

- A. Red sea
- B. Gulf maxico
- C. pacific islands

D. Mediterranean sea

Answer: D



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87. The simplest type of canal system in porifera or Type of spongocoel found in Leucosolenia is

A. Ascon type

B. Leucon type

C. Sycon type

D. Radial type

Answer: A



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88. Thesoocytes serve as

- A. Sex cells
- B. Slime secreting cells
- C. Food reserve
- D. Embryonic cells

Answer: C



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89. Animals devoid of respiratory, excretory and circulatory organs are

- A. Tapeworms
- B. Sponges(porifera)
- C. Thread worms
- D. Liver fluke

Answer: B



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90. Collar cells occur in

A. Sponges

B. Hydra

C. Sandworm

D. Star fish

Answer: A



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91. Nutrition in sponges is

A. Extracellular

B. Intracellular

C. First extracellular and then intracellular

D. First intracellular and then extracellular

Answer: B



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92. Carmine particle put above osculum of a sponge would be

A. Left there

B. Ingested and digested

C. Thrown away

D. Ingested and thrown away by ostia

Answer: C



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93. Canal system in porifera is not concerned with

- A. Respiration
- B. Nutrition
- C. Sexual reproduction
- D. None of these

Answer: C



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94. Which of the following are multicellular grade organisms

- A. Sponges
- B. Coelenterates
- C. Prokaryotes
- D. Vertebrates

Answer: A



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95. Sponges have evolved from

A. Ciliates

B. Flagellates

C. Protozoans

D. Choanoflagellates

Answer: D



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96. Which is universal for sponges

A. Marine

- B. Calcareous spicules
- C. Radial symmetry
- D. High regenerative power

Answer: D



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97. In sponges, canal system develops due to

- A. Gastrovascular system
- B. Folding of inner walls
- C. Porous walls
- D. Reproduction

Answer: B



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98. Osculum occurs in

- A. Star Fish
- B. Ray Fish
- C. Hydra
- D. Sponge

Answer: D



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99. Incurrent canals are lined by

- A. Choanocytes
- B. Pinacocytes
- C. Porocytes
- D. None of the above

Answer: B



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100. Choanocytes in Ascon-type of canal system form lining of

- A. Spongocoel
- B. Porocyte
- C. Apopyle
- D. Incurrent canal

Answer: A



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101. In case of poriferans, the spongocoel is lined with flagellated cells called

A. Ostia

B. Oscula

C. Choanocytes

D. Mesenchymal cells

Answer: C



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102. Larva of jelly fish (Aurelia)

A. Planula

B. Polyp

C. Medusa

D. Blastula

Answer: A



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103. Highest degree of polymorphism is found in

- A. Protozoa
- B. Cnidaria
- C. Platyhelminthes
- D. Arthropoda

Answer: B



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104. The dioecious animal is

- A. Liverfluke
- B. Aurelia
- C. Tapeworm

D. Earthworm

Answer: B



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105. Metagenesis refers to

- A. Alternation of generation between asexual and sexual phases of an organisms
- B. Occurrence of a drastic change in form during post embryonic development
- C. Presence of a segmented body and parthenogenetic mode of reproduction
- D. Presence of different morphic forms

Answer: A



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106. Which of the following do not have polyp form

- A. Hydrozoa
- B. Scyphozoa
- C. Anthozoa
- D. All the above

Answer: B



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107. Which shows polymorphism

- A. Physalia
- B. Trypanosoma
- C. Termite

D. All of the above

Answer: D



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108. Select the right option in which all the following figures are correctly identified



	A	B	C	D
(a)	Adamsia	Aurelia	Pleurobrachia	Cnidoblast
(b)	Cnidoblast	Pleurobrachia	Adamsia	Aurelia
(c)	Aurelia	Adamsia	Cnidoblast	Pleurobrachia
(d)	Pleurobrachia	Cnidoblast	Aurelia	Adamsia



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109. Most appropriate term to designate the life cycle of Obelia is

A. Neoteny

B. Metagenesis

C. Metamorphosis

D. None of these

Answer: B



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110. Which of the following does not belong to phylum Coelenterata

A. Sea pen

B. Sea feather

C. Sea cucumber

D. Sea fan

Answer: C



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111. Sea anemone belongs to class

- A. Hydrozoa
- B. Anthozoa
- C. Scyphozoa
- D. None of these

Answer: B



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112. Primitive nervous system is formed in

- A. Sponges
- B. Cnidaria(Coelenterata)
- C. Echinodermata
- D. Annelida

Answer: B



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113. Corals belong to the phylum

A. Protozoa

B. Porifera

C. Cnideria

D. Mollusca

Answer: C



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114. The phylum of comb jelly is

or

Which one of the following groups of animals reproduces only by sexual means

- A. Mollusca
- B. Echinodermata
- C. Coelenterata
- D. Ctenophora

Answer: D



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115. Hydra is

- A. Herbivorous
- B. More developed
- C. Carnivorous
- D. Omnivorous

Answer: C



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116. Polyp phase is absent in

- A. Hydra
- B. Aurelia
- C. Physalia
- D. Obelia

Answer: B



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117. Jelly fish is placed in which class of coelenterata

- A. Anthozoa

B. Scyphozoa

C. Hydrozoa

D. None of the above

Answer: B



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118. One of the special characters of coelenterata only is the occurrence of

A. Hermaphroditism

B. Flame cells

C. Polymorphism

D. Nematocysts

Answer: D



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119. Organ pipe coral is

- A. Astrea
- B. Tubipora
- C. Fungia
- D. Meandrina

Answer: B



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120. Nematoblast of Hydra are

- A. Sensory
- B. Complicated
- C. With nemetocyst apparatus
- D. All of the above

Answer: A



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121. The nitrogenous metabolic waste in Hydra mostly

- A. Ammonia and is removed from whole surface of body
- B. Urea and is removed mainly by tentacles
- C. Urea and is removed from whole surface of body
- D. Uric acid and is removed from whole surface of body

Answer: A



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122. A mature Hydra usually bears

- A. One testis and several ovaries

- B. One testis and one ovary
- C. Several testes and one ovary
- D. Several testes and several ovaries

Answer: C



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123. Main cavity in the body of Hydra is called

- A. Gastrovascular cavity
- B. Schizoncoel
- C. Haemocoel
- D. Pseudocoelom

Answer: A



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124. Pneumatophore helps in

- A. feeding
- B. Reproduction
- C. Protection
- D. Floating

Answer: D



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125. Which of the following statements is incorrect

- A. Cnidocil is for defence in Hydra
- B. Nerve cells are absent in Hydra
- C. Hydra is a coelentrate
- D. Hydra shows budding

Answer: B



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126. A coral island with a central shallow lake is known as

- A. Coral reef
- B. Atoll
- C. Corallite
- D. Diatomaceous sheath

Answer: B



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127. Why does the Ctenophora is a minor phylum

- A. It includes small sized animals

B. It includes only few genera

C. It does not include animals of economic importance

D. It was included earlier in cnidaria

Answer: B



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128. The larva of hydra is

A. Planula

B. Rhabditoid

C. Trochophore

D. None of these

Answer: D



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129. The true statement regarding corals is

- A. They form branched colonies
- B. Are solitary or colonial polypoid
- C. They grow as massive bodies
- D. All of these

Answer: D



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130. Hydra is or Coelenterates generally include animals which are

- A. Triploblastic, radial symmetry and acoelomate
- B. Triploblastic, radial symmetry and coelomate
- C. Diploblastic, radial symmetry and acoelomate
- D. Diploblastic, radial symmetry and coelomate

Answer: C



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131. Symmetry in Cnidaria is

- A. Radial
- B. Bilateral
- C. Pentamerous
- D. Spherical

Answer: A



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132. How many ova are formed in the ovary of hydra

- A. 2

B. 4

C. 1

D. 3

Answer: C



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133. Which one of the following animals is a coelenterate

A. Sea cow

B. Sea horse

C. Sea cucumber

D. Sea pen

Answer: D



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134. Hydra receives impulses and stimuli through

- A. Nerve net
- B. Sensory cells
- C. Nematocytes
- D. All of these

Answer: D



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135. In which class of coelenterata the polyp and medusa both are found in one animal

- A. Hydrozoa
- B. Scyphozoa
- C. Anthozoa
- D. None of them

Answer: A



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136. Which of the following belongs to anthozoa

- A. Aurelia
- B. Fungia
- C. Stercularia
- D. Dugesia

Answer: B



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137. Match the following and choose the correct option

- | | |
|----------------|--------------------------|
| (i) Physalia | A. Sea anemone |
| (ii) Meandrina | B. Brain coral |
| (iii) Gorgonia | C. Sea fan |
| (iv) Adamsia | D. Portuguese man of war |

A. i-C,ii-B,iii-A,iv-D

B. i-D,ii-C,iii-B,iv-A

C. i-D,ii-B,iii-C, iv-A

D. i-B,ii-C,iii-A,iv-D

Answer: C

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138. Statocysts are sense organs of

A. Ascaris

B. Paramecium

C. Taenia solium

D. Obelia medusa

Answer: D

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139. Ephyra' is the stage in the life cycle of

- A. Frog
- B. Obelia
- C. Aurelia
- D. Sea anemone

Answer: C



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140. Choose the correct pair

- A. Radial symmetry-Coelenterates
- B. Coelomates-Aschelminthes
- C. Metamerism-Molluscs

D. Triploblastic-Sponges

Answer: A



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141. The characteristic larva of phylum Coelentrata is

A. Planula

B. Cysticercus

C. Rhabdiform

D. Wiggler

Answer: A



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142. Among the following organisms point out a completely non-parasitic form

- A. Sea anemone
- B. Leech
- C. Tapeworm
- D. Mosquito

Answer: A



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143. Which of the following is not found in vertebrates

- A. Bilateral symmetry
- B. Gill opening
- C. Body scales
- D. Cnidoblasts

Answer: D



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144. In which phylum nerve cells are found but nerves are absent

- A. Porifera
- B. Coelenterata
- C. Platyhelminthes
- D. Nemathelminthes

Answer: B



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145. Which of the following is not found in Hydra

- A. Epithelio-muscular cells

B. Cnidocyte

C. Choanocyte

D. Nerve cells

Answer: C



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146. Which of the following animals has a nervous system but no brain

A. Pheretima

B. Hydra

C. Amoeba

D. Periplaneta

Answer: B



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147. Penetrant, valent and glutinant are types of

- A. Nematocysts of Hydra
- B. Tentacles of Hydra
- C. Zooids of Obelia
- D. Tentacles of Obelia

Answer: A



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148. Tentacles of Hydra appear to be

- A. 2
- B. 15
- C. 8
- D. 14

Answer: C



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149. The gastrovascular cavity of Hydra provides for

- A. Digestion and storage
- B. Storage and circulation
- C. Excretion and storage
- D. Digestion and circulation

Answer: D



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150. Testes are located in Hydra at

- A. Proximal half

B. Distal half

C. Middle

D. Tentacles

Answer: B



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151. Zoochlorellae and zooxanthallae present in Hydra are

A. Symbionts in nutritive cells

B. Symbionts in the gut

C. Symbionts in cnidoblasts

D. Organisms that provide hypnotoxin

Answer: A



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152. Body cavity of Hydra is called

- A. Enterocoel
- B. Coelenteron
- C. Gastrovascular cavity
- D. Both (b) and (c)

Answer: D



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153. Precious Red Coral is//Coral used in ornaments is

- A. *Astraea*
- B. *Fungia*
- C. *Corallium*
- D. *Tubipora*

Answer: C



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154. Gonads of Obelia occur

- A. In hydrula stage and indefinite in number
- B. Bases of tentacles of medusa and 8 in number
- C. On blastostyles and 8 in number
- D. On radial canals, oral surface of medusa and four in number

Answer: D



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155. Gastrodermis of Hydra takes part in digestion of

- A. Carbohydrates and fats

B. Proteins and fats

C. Proteins, fats and some carbohydrates

D. Proteins and carbohydrates

Answer: C



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156. The cells absent in gastrodermis of Hydra are

A. Nutritive cells

B. Stinging cells

C. Gland cells

D. Nerve cells

Answer: B



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157. Muscles of Hydra are

- A. Smooth
- B. Skeletal
- C. Both (a) and (b)
- D. None of the above

Answer: D



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158. Budding is a normal mode of asexual reproduction in

- A. Starfish and Hydra
- B. Hydra and sponges
- C. Tapeworm and Hydra
- D. Sponges and starfish

Answer: B



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159. Which of the following is not present in the body wall of Hydra

- A. Sensory cell
- B. Glial cell
- C. Cnidoblasts
- D. Nerve cell

Answer: B



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160. Nematocysts take part in

- A. Locomotion

B. Offence and defence

C. Food capture

D. All the above

Answer: D



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161. Which is wrongly matched

A. Euglenoidae → Myonemes

B. Ciliophora → Axonemes

C. Annelida → Notopodia

D. Cnidaria → Parapodia

Answer: D



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162. Nematocysts are activated by

- A. Water
- B. Touch
- C. Brain
- D. None of the above

Answer: B



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163. Which one of the following living organisms completely lacks a cell wall

- A. Saccharomyces
- B. Blue-green algae
- C. Cyanobacteria
- D. Sea - fan (Gorgonia)

Answer: D



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164. Which pair of cells is present in epidermis of Hydra but not in its endoderm

- A. Stinging cells and interstitial cells
- B. Gland cells and germ cells
- C. Stinging cells and germ cells
- D. Stinging cells and gland cells

Answer: C



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165. If Hydra is broken into pieces

- A. Hydra will die
- B. Every fragment will grow into complete Hydra
- C. Some fragments will form from reproduction
- D. Hydra will undergo sexual reproduction

Answer: B

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166. Testes//gonads are formed in Hydra from

- A. Interstitial cells
- B. Epithelio-muscular cells
- C. Nerve cells
- D. All the above

Answer: A

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167. Food of Hydra is

- A. Aquatic plants
- B. Aquatic animals
- C. Algae and aquatic animals
- D. Some crustaceans

Answer: D



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168. A number of buds have developed on Hydra

- A. Oldest bud is towards oral region
- B. Oldest bud is towards aboral region
- C. Both (a) and (b)

D. There is no order

Answer: D



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169. Mesogloea of Hydra is made of

A. Mucopolysaccharides

B. Protein

C. Protein and fat

D. Reticulate tissue

Answer: A



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170. Characteristic feature of coelenterata is

- A. All are marine
- B. Presence of tentacles around mouth
- C. Polyp
- D. Gastrovascular cavity

Answer: D

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171. Which of the following during respiration obtain water dissolved oxygen by diffusion through their body surface

- A. Cnidarians
- B. Fishes
- C. Amphibians
- D. Reptiles

Answer: A

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172. Hydra recognises its prey by

- A. Nematocyst
- B. Chemical stimules
- C. Smell Sensitivity
- D.

Answer: A

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173. Common name of Fungia is

- A. Mushroom Coral
- B. Red Coral
- C. Brain Coral

D. Organ Pipe Coral

Answer: A



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174. In Hydra new nematocysts develop from

- A. Cnidocils
- B. Glandular cells
- C. Germ cells
- D. Interstitial cells

Answer: D



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175. Polymorphism occurs in

A. Anthozoa

B. Scyphozoa

C. Rhizopoda

D. Hydrozoa

Answer: D



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176. Medusa of Obelia is

A. Carnivorous

B. Herbivorous

C. Detritus feeder

D. Omnivorous

Answer: A



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177. Sense organs of Aurelia are

- A. Tentilla
- B. Tentaculocyst
- C. Nematocyst
- D. Otolith

Answer: B



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178. Germ cells of Hydra are derived from

- A. Ectoderm
- B. Endoderm
- C. Mesoderm

D. Mesogloea

Answer: A



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179. Looping and somersaulting types of locomotion are seen in

A. Leech

B. Amoeba

C. Snail

D. Hydra

Answer: D



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180. The given figures (*A – D*) show four animals. Select the correct option with respect to a common characteristic of any two of these animals.



A



B



C



D

- A. (A) and (B) have cnidoblasts for self-defence
- B. (C) and (D) have a true coelom
- C. (A) and (D) respire mainly through body wall
- D. (B) and (C) show radial symmetry

Answer: B



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181. In Hydra , cnidoblasts employed during looping are

- A. Volvents
- B. Stenoteles
- C. Atrichous isorhizas
- D. Desmonemes

Answer: C



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182. Animal showing thigmotaxis is

- A. Ascaris
- B. Taenia
- C. Fungia
- D. Hydra

Answer: D



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183. Which of the following symmetry is found in adult sea-anemone

- A. Biradial
- B. Spherical
- C. Bilateral
- D. None of these

Answer: A



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184. Which is correct about nematocyst in Hydea

- A. it is re-used

B. Ejection is conditioned reflex

C. Ejection occurs in response to contact and pierces the prey

D. Prevents coming in contact with other Hydra

Answer: C



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185. Hydra will regenerate from a fragment, if it contains

A. Tentacles

B. Epidermis and gastrodermis

C. Tentacles, epidermis and gastrodermis

D. Epidermis, hypodermis and gastrodermis

Answer: B



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186. Bilateral symmetry does not occur in

- A. Frog
- B. Octopus
- C. Mammal
- D. Obelia

Answer: D



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187. Ctenophores have similarities with members

- A. Porifera
- B. Coelenterata
- C. Arthropoda
- D. Annelida

Answer: B



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188. Larva like stage of Hydra is

- A. Hydrula
- B. Hydratuba
- C. Scyphula
- D. Planula

Answer: D



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189. Solenocytes and nephridia are respectively found in

- A. Platyhelminthes and Annelids

B. Annelids and Nematoda

C. Cnidaria and Mollusca

D. Mollusca and Echinodermata

Answer: A



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190. Which of the following is a free living flat worm

A. Planaria

B. Taenia

C. Fasciola

D. Pheretima

Answer: A



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191. in which of the following kinds of animals are triploblastic

- A. Fish
- B. Roundworm
- C. Earthworm
- D. Liver fluke

Answer: D



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192. Which one of the following kinds of animals are triploblastic

- A. Corals
- B. Flat worms
- C. Sponges
- D. Ctenophores

Answer: B



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193. Cestodes are distinguished from other flatworms by the absence of

- A. Nervous system
- B. Digestive system
- C. Excretory system
- D. Reproductive system

Answer: B



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194. Which one of the following is an example of platyhelminthes

- A. Trypanosoma

B. Schistosoma

C. Plasmodium

D. Wuchereria

Answer: B



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195. Fasciola hepatica is

A. Hermaphrodite, self fertilising

B. Hermaphrodite, cross fertilising

C. Unisexual

D. Both (a) and (b)

Answer: D



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196. Which of the following animals does not have a body composed of many segments

- A. Flatworm
- B. Grass hopper
- C. Earthworm
- D. Lobster

Answer: A



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197. Cysticercus is the larve of

- A. Liver fluke
- B. Tapeworm (Taenia)
- C. Ascaris
- D. Mollusca

Answer: B



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198. Planaria, liver fluke and taenia solium are

- A. All segmented
- B. All found in the gut
- C. All above coelom
- D. All are flatworms

Answer: D



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199. All flatworms differ from all round worms in having

- A. Triploblastic body

- B. Solid mesoderm
- C. Bilateral symmetry
- D. Matamorphosis in the life history

Answer: B



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200. Which stage in the life cycle of *Taenia solium* insects the intermediate host

- A. Hexacanth larva
- B. Oncosphere
- C. Cysticercus larva
- D. Miracidium

Answer: B



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201. Flame cells are excretory organ of

- A. Planaria
- B. Flat worms
- C. Taenia
- D. All of the above

Answer: D



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202. Laurer's canal is found in

- A. Amoeba
- B. Paramecium
- C. Fasciola
- D. Hydra

Answer: C



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203. Turbellarians are free living

- A. Nematodes
- B. Annelids
- C. Trematodes
- D. Flatworm

Answer: D



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204. The cross-section of the body of an invertebrate is given below.

Identify the animal which has this body plan



- A. Cockroach
- B. Roundworm
- C. Planaria
- D. Earthworm

Answer: C

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205. Locomotory organs in Taenia are called

- A. Setae
- B. Parapodia
- C. Flagella
- D. None of these

Answer: D

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206. To which of the following phylum class Trematoda belongs

A. Platyhelminthes

B. Arthropoda

C. Mollusca

D. Annelida

Answer: A



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207. Identify the phylum X



A. Hemichordata

B. Aschelminthes

C. Platyhelminthes

D. Ctenophora

Answer: C



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208. Flatworms are

A. Acoelomates

B. Pseudocoelomates

C. Haemocoelomates

D. Coelomates

Answer: A



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209. Rhabdites occur in

A. Planaria//Dugesia

B. Fasciola

C. Taenia

D. Echinococcus

Answer: A



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210. Triploblastic unsegmented acoelomate exhibiting bilateral symmetry and reproducing both asexually and sexually with parasitic forms.

The above description is characteristic of phylum

A. Platyhelminthes

B. Annelida

C. Ctenophora

D. Cnidaria

Answer: A



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211. The contrast to Annelids the Platyhelminthes show

- A. Absence of body cavity
- B. Bilateral symmetry
- C. Radial symmetry
- D. Presence of pseduocoel

Answer: A



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212. The greatest ability of regeneration amongst the animals is found in

- A. Ascaris

B. Pheretima

C. Hirudinia

D. Planaria(Dugesia)

Answer: D



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213. A metazoan covered by cilia is

A. Paramecium

B. Dugesia

C. Fasciola

D. Ascaris

Answer: B



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214. Chloragogen cells resemble the following in function

- A. Collared cells
- B. Flame cells
- C. Plasma cells
- D. Mesophyll cells

Answer: B



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215. Pseudocoelum is not found in

- A. Ascaris
- B. Ancylostoma
- C. Fasciola
- D. None of these

Answer: C



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216. One example of animals having a single opening to the outside that serves both as mouth as well as anus is

- A. Fasciola
- B. Octopus
- C. Asterias
- D. Ascidia

Answer: A



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217. Which of the following show anaerobic respiration

A. Earthworms

B. Rabbit

C. Echinoderms

D. Tapeworms

Answer: D



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218. Bilaterally symmetrical but acoelomate animal is

A. Liver fluke

B. Jelly fish

C. Round worms

D. Crab

Answer: A



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219. Sometimes parasites themselves are parasitised by other organism such parasites known as

- A. Symbionts
- B. Endoparasites
- C. Ectoparasites
- D. Hyperparasites

Answer: D



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220. Mehli's glands of Tapeworm are associated with

- A. Reproduction
- B. Excretion
- C. Respiration

D. Circulation

Answer: A



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221. Malpighian tubules are analogous to

A. Trachea of cockroach

B. Gills

C. Flame cells

D. None of these

Answer: C



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222. Tapeworm does not possess digestive system as it

- A. Does not require solid food
- B. Obtains food through general surface
- C. Does not require food
- D. Lives in intestine

Answer: B

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223. Intermediate host of Liver Fluke is

- A. Pig
- B. Man
- C. Snail
- D. Mosquito

Answer: C

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224. The embryo of Taenia present in ripe proglottids is

- A. Tetracanth
- B. Hexacanth
- C. Miracidium
- D. Bladderworm

Answer: B



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225. Schistosoma is a parasite found in

- A. Blood
- B. Liver
- C. Lungs

D. Intestine

Answer: A



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226. Onchosphere occurs in

A. Ascaris

B. Fasciola

C. Taenia

D. Planaria

Answer: C



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227. Hymenolepis nana is

- A. Dog Tapeworm
- B. Dwarf Tapeworm of Man
- C. Pork Tapeworm
- D. Dead Men's Finger

Answer: B

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228. Fasciola hepatica lives in

- A. Liver of sheep
- B. Blood of sheep
- C. Intestine of sheep
- D. Spleen of sheep

Answer: A

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229. The intermediate host of Schistosoma is

- A. Snail
- B. Mosquito
- C. Housefly
- D. Sheep

Answer: A



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230. Larva of Schistosoma is

- A. Cercaria
- B. planula
- C. Cysticercus

D. Muller's larve

Answer: A



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231. What is correct about Taenia

- A. The animal has no mouth, alimentary canal and anus
- B. Presence of hooks for adhesion, externally divided body
- C. Mature proglottides contain both male and female organs
- D. All of the above

Answer: D



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232. What is true about Taenia saginata

A. Life history has pig as intermediate host

B. There are two large suckers on scolex

C. Rostellar hooks are absent

D. Rostellum has double circle of hooks

Answer: C



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233. Cysticercus of Taenia develop in

A. Man

B. Goat

C. Sheep

D. Pig

Answer: D



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234. Which constitutes the correct pairing

- A. Flatworm-Planaria
- B. Dogfish-Sea Urchin
- C. Fish-Snail
- D. None of the above

Answer: A



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235. Anus is absent in

- A. Fasciola
- B. Pheretima
- C. Periplaneta

D. Unio

Answer: A



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236. Pick up the correctly matched

A. Water vascular system-Sponge

B. Blubber - Kangaroo

C. Marsupium-Platypus

D. Flame cell-Flatworm

Answer: D



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237. Cysticerci in pig muscles can remain viable upto

- A. One year
- B. Six months
- C. Six years
- D. One month

Answer: B

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238. In life history of liver fluke are present (1) Cercaria (2) Metacercaria (3) Sporocyst (4) Redia (5) Miracidium. What is their proper sequence

- A. 21354
- B. 53412
- C. 54213
- D. 54312

Answer: B

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239. Both alternation of generation and alternation of hosts are present in

A. Wuchereria

B. Fasciola

C. Taenia

D. Ascaris

Answer: B

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240. Give the correct match in the following

Column I

Column II

A Flame cells

p. Sponges

B Collar Cells

q. Hydra

C Stinging Cells

r. Planaria

- -

s. Ascaris

A. $A=r, B=p, C=q$

B. $A=r, B=p, C=s$

C. $A=r, B=s, C=p$

D. $A=r, B=q, C=s$

Answer: A



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241. Solenocytes// flame cells are excretory structures of

A. Echinoderms

B. Annelids

C. Platyhelminthes

D. Molluscs

Answer: C



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242. Lung Fluke is

- A. *Hymenolepis nana*
- B. *Paragonimus westermani*
- C. *Schistosoma haematobium*
- D. *Echinococcus granulosus*

Answer: B



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243. Alimentary canal is absent in

- A. *Taenia* and *Schistosoma*
- B. *Ascaris* and *Fasciola*
- C. *Taenia* and *Echinococcus*

D. Tricuris and Fasciola

Answer: C

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244. Pin worm is called as

A. Schistosoma haematobium

B. Wucheraria bancrofti

C. Ancylostoma duodenale

D. Enterbius vermicularis

Answer: D

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245. Pineal setae in male Ascaris are found in

- A. Cloaca
- B. Rectum
- C. Anus
- D. Mouth

Answer: A

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246. Which one of the following groups of animals is bilaterally symmetrical and triploblastic

- A. Coelenterates (cnidarians)
- B. Aschelminthes (round worms)
- C. Ctenophores
- D. Sponges

Answer: B

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247. The parasite which completes its life cycle in a single host (only man) is

- A. *Fasciola hepatica*
- B. *Plasmodium vivax*
- C. *Taenia solium*
- D. *Ascaris lumbricoides*

Answer: D

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248. Which of the following groups have one or more animals which are not pseudocoelomate

- A. *Ascaris*, *taenia*

B. Enterobius wuchereria

C. Ancylostoma dracunculus

D. Ascaris ancylostoma

Answer: A



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249. Ancylostoma infection spreads through

A. Contaminated food

B. Kissing

C. Skin

D. Blood

Answer: C



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250. In *Ascaris* 3rd moulting takes place in

- A. Intestine
- B. Lung
- C. Liver
- D. Egg

Answer: B



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251. Excretory pore of *Ascaris* is present

- A. Behind the mouth
- B. On the posterior end
- C. On the dorsal side
- D. in the middle of the body

Answer: A



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252. A rhabditiform larva is formed in the life cycle of

- A. Ascaris
- B. Tapeworm
- C. Hydra
- D. Leucosolenia

Answer: A



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253. Choose the correct statement with reference to Ascaris

- A. Hatching of embryos takes place in the stomach due to lytic enzyme

- B. Adulthood is reached inside the body of the host in ten days time
- C. Development and moulting takes place in the alveoli of lungs
- D. Hatching of embryo takes places within ten hours

Answer: C



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254. In nemathelminthes the coelom is not lined by peritoneum is

- A. A coelom
- B. Pseudocoelom
- C. Enterocoelom
- D. Haemocoel

Answer: B



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255. Which of the following sense organs present in *Ascaris* are chemoreceptors and are located in ventrolateral lips

- A. Amphids
- B. Pineal setae
- C. Pineal spicules
- D. Copulatory bursa

Answer: A



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256. One of the following is pseudocoelomate

- A. Leech
- B. Liver fluke
- C. Hookworm
- D. Jelly fish

Answer: C



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257. Ascaris performs

- A. Aerobic respiration
- B. Anaerobic respiration
- C. Both (a) and (b)
- D. None of these

Answer: B



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258. Filariform is larva of

- A. Platyhelminthes

B. Aschelminthes

C. Annelids

D. Arthropods

Answer: B



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259. Thigmotaxis is not shown by

A. Paramecium

B. Amoeba

C. Ascaris

D. Hydra

Answer: C



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260. The adult *Wuchereria bancrofti* lives in or attacks

- A. Human subdermal spaces
- B. Muscles of culex
- C. Salivary glands of culex
- D. Human lymph glands

Answer: D



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261. Musculature of *Ascaris* consists of

- A. Circular muscles only
- B. Outer longitudinal and inner circular
- C. outer circular and inner longitudinal
- D. Longitudinal muscles only

Answer: D



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262. Which is the monogenetic in following

A. Tapeworm

B. Ascaris

C. Fasciola

D. Hookworm

Answer: B



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263. All worms are

A. Triploblastic

B. Segmented

C. Endo-parasites

D. Free-living

Answer: A



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264. Which of the following is metazoan parasite transmitted through contaminated food or water

A. Ascaris

B. Entamoeba

C. Guinea worm

D. Worm

Answer: A



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265. The anterior V-spot in microfilaria of *Wuchereria* represents

- A. Nerve ring
- B. Cervical papilla
- C. Excretory system
- D. Reproductive system

Answer: C



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266. Syncytial epidermis occurs in

- A. *Ascaris*
- B. Hydra
- C. *Taenia*
- D. *Leucosolenia*

Answer: A



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267. Male *Ascaris* is differentiable from female *Ascaris* in

- A. Presence of post-anal papillae
- B. Presence of pre-anal papillae
- C. Presence of penial setae
- D. All the above

Answer: D



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268. Female *Ascaris* is differentiable from male in

- A. Presence of cloaca

B. Presence of penial setae

C. Shorter size

D. Straight posterior end

Answer: D



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269. Ascaris is characterized by

A. Presence of true coelom but absence of metamerism

B. Presence of true coelom and metamerism (metamerisation)

C. Absence of true coelom but presence of metamerism

D. Presence of neither true coelom nor metamerism

Answer: D



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270. An intermediate host is absent in case of parasite

- A. Liver fluke
- B. Tapeworm
- C. Ascaris
- D. Plasmodium

Answer: C



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271. Ascaris protects itself against digestive enzymes of the host by

- A. Mucus
- B. Antienzymes
- C. Antienzymes and cuticle
- D. cuticle

Answer: C



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272. Which is true of Ascaris

- A. Host
- B. Aquatic
- C. Unisexual
- D. Bisexual

Answer: C



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273. Alcopar is drug useful for

- A. Taeniasis

B. Amoebiasis

C. Ascariasis

D. Schistosomiasis

Answer: C



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274. Cyclops is intermediate host of

A. Planaria//Dugesia

B. Echinococcus

C. Dracunculus

D. Ancylostoma

Answer: C



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275. Differentiating trait of *Ascaris* is

- A. Sexual dimorphism and rhabditiform larva
- B. Unsexual and digenetic parasite
- C. Pseudocoelom and metameric segmentation
- D. Hermaphrodite and pseudocoelom

Answer: A



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276. Microfilariae are carried by

- A. Sandfly
- B. *Culex* mosquito
- C. *Anopheles* mosquito
- D. Housefly

Answer: B



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277. The first and last moults of *Ascaris* occur in or Fourth moulting of *Ascaris* occur in

- A. Heart
- B. Kindey
- C. Liver
- D. Intestine

Answer: D



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278. Which one is used in treatment of ascariasis

A. Chenopodium oil

B. Paludrin

C. Terramycin

D. None of the above

Answer: A

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279. A thick layer of cuticle on the surface of Ascaris indicates

A. Reproduction

B. Growth

C. Parasitism

D. Evolution

Answer: C

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280. Embryonated egg of Ascaris is

- A. An egg with gastrula
- B. An egg with blastula
- C. An egg with juvenile
- D. An egg within an egg

Answer: C



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281. Sensory structures in Ascaris are

- A. Phasmids
- B. Amphids
- C. Papillae

D. All the above

Answer: D



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282. Excretory pores present in *Ascaris* are

A. One

B. Two

C. One pair

D. Two pairs

Answer: A



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283. *Ascaris lumbricoides* is commonly called

A. Roundworm

B. Hookworm

C. Seat worm

D. Pinworm

Answer: A



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284. Pseudocoelom develop from

A. Blastopore lip

B. Archenteron

C. Embryonic mesoderm

D. Blastocoel

Answer: D



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285. Which is secondary// intermediate host of Hookworm

A. Bed Bug

B. Sandfly

C. Mosquito

D. None of the above

Answer: D



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286. Wuchereria causes a disease in parts of india

A. Filariasis- South india

B. Elephantiasis- Bihar

C. Elephantiasis- Karnataka

D. None of the above

Answer: A



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287. which larval stage of Ascaris is infective

A. First and fourth

B. Second and third

C. First and second

D. Third and fourth

Answer: C



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288. Which is not true of Ascaris infection

- A. More common in children
- B. Does not produce tonsillitis
- C. Number can be 500-5000
- D. Infection is cured even without medication

Answer: D

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289. Life span of Ascaris is

- A. 6-9 months
- B. 9-12 months
- C. 4-10 months
- D. 10-12 months

Answer: B

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290. Ascaris has three lips

- A. One median dorsal and two ventrolateral
- B. All dorsal
- C. Two lateral and one ventral
- D. Two dorso- lateral and one median ventral

Answer: A



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291. Number of juvenile stages found during development of Ascaris

- A. 1
- B. 2
- C. 3

D. 4

Answer: D



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292. Enterbius infection occurs through

- A. Mosquito
- B. Contamination
- C. Inoculation
- D. Piercing

Answer: B



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293. Microfilaria occurs in peripheral blood of human beings during

A. Morning

B. Evening

C. Night

D. Day time

Answer: C



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294. Animal group with pseudocoelom is

A. Echinoderms

B. Molluscs

C. Aschelminthes// Nematodes

D. Annelids

Answer: C



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295. Which one of the following statements about certain given animals is correct

- A. Flat worms (Platyhelminthes) are coelomates
- B. Round worms (Aschelminthes) are pseudocoelomates
- C. Molluses are acoelomates
- D. Insects are Pseudocoelomates

Answer: B



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296. Coenocytic condition is found in

- A. Ulothrix
- B. Chlamydomonas
- C. Spirogyra

D. Wuchereria

Answer: D



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297. Size of female *Ascaris lumbricoides* is

A. 50-80 mm

B. 100-150 mm

C. 150-250 mm

D. 200-350 mm

Answer: D



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298. An ovoviviparous parasite is

- A. Taenia
- B. Wucheraria
- C. Ascaris
- D. Plasmodium

Answer: B

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299. Larvae of Ascaris hatch out in

- A. Soil
- B. Intestine
- C. Liver
- D. Lungs

Answer: B

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300. Which one of the following correctly describes the location of some body parts in the earthworm *Pheretima*

- A. Two pairs of accessory glands in 16-18 segments
- B. Four pairs of spermathecae in 4-7 segments
- C. One pair of ovaries attached at intersegmental septum of 14th and 15th segments
- D. Two pairs of testes in 10th and 11th segments

Answer: D



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301. If a live earthworm is pricked with a needle on its outer surface damaging its gut the fluid that comes out is or Earthworms have no skeleton but during burrowing the anterior end becomes turgid and acts as a hydraulic skeleton it is due to

A. Excretory fluid

B. Coelomic fluid

C. Haemolymph

D. Slimy mucus

Answer: B



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302. Male genital aperture of earthworms is located in the segment

A. 13

B. 14

C. 19

D. 18

Answer: D



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303. Annelids are

- A. Radially symmetrical
- B. Externally segmented
- C. Triploblastic
- D. Pseudocoelomate

Answer: C



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304. The parasite found in the seminal vesicle of earthworm

- A. Monocystis
- B. Nosema
- C. Sarcocystis

D. Nyctotherus

Answer: A



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305. Which one of the following is NOT a characteristic of phylum Annelida

- A. Pseudocoelom
- B. Ventral nerve cord
- C. Closed circulatory system
- D. Segmentation

Answer: A



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306. Which one of the following is not hermaphrodite animal

- A. Leeches
- B. Polychaetes
- C. Flatworms
- D. Earthworm

Answer: B



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307. *Pheretima posthuma* and *Periplanata* are similar in which aspect

- A. Both have nephridia as excretory organs
- B. Both have ventral nerve cord
- C. Both belong to same taxonomical group
- D. All the above

Answer: B



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308. Which of the following belongs to the phylum annelida

A. Octopus

B. Ant

C. Nereis

D. Crab

Answer: C



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309. Specialized chemoreceptors located on the anterior part of earthworms are

- A. Heat receptors
- B. Photo receptors
- C. Taste receptors
- D. Pressure receptors

Answer: C

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310. Closed blood vascular system, chitinous setae or parapodia are the characteristics of

- A. Arthropoda
- B. Nematoda
- C. Annelida
- D. None of these

Answer: C

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311. See the figure given below and identify A to D respectively



A. A- seminal vesicle, B- Testis, C- Prostate gland, D- Accessory gland

B. A- Testis, B- Seminal vesicle, C- Prostate gland, D- Accessory gland

C. A- Seminal vesicle, B- Testis, C- Accessory gland, D- Prostate gland

D. A- Testis, B-Seminal vesicle, C- Accessory gland, D- Prostate gland

Answer: D

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312. In which of the following clitellum is absent

A. Polychaeta

B. Oligochaeta

C. Hirudiniaea

D. All the above

Answer: A



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313. One very special feature in the earthworm pheretima is that

A. It has a long dorsal tubular heart

B. Fertilisation of eggs occurs inside the body

C. The typhlosole greatly increases the effective absorption area of the digested food in the intestine

D. The S- shaped setae embedded in the integument are the defensive weapons used against the nemies

Answer: C



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314. Botroidal tissue is found in

- A. Rabbit
- B. Ascaris
- C. Hirudinaria
- D. Earthworm

Answer: C



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315. Identify the following structures labelled A to E in the diagram given below the list I to V



- I. Septal nephridia
- II. Pharynx
- III. Forest of integumentary nephridia

IV. Integumentary nephridia

V. Tufts of Pharyngeal nephridia

A. A B C D E
 II III IV I V

B. A B C D E
 II IV V I III

C. A B C D E
 II V IV III I

D. A B C D E
 II I III IV V

Answer: C



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316. In Pheretima, there are red coloured round bodies in 4th, 5th and 6th segments above the alimentary canal They are believed to be involved in

A. Excretion

B. Digestion

C. Reproduction

D. Leucocyte production

Answer: D



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317. Which one of the following exhibits concentric "tube within tube" plan

A. Arthropoda

B. Oligochaeta

C. Mollusca

D. Echinodermata

Answer: B



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318. The colour of the body in earthworm is brown due to the presence of

A. Porphyrin

B. Haemoglobin

C. Blood

D. Haemocyanin

Answer: A



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319. The famous indian Zoologist who wrote a memoir upon Pheretima posthuma is

A. J.C. Bose

B. M.L. Bhatia

C. K.N. Bahl

D. Beni prasad

Answer: C

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320. The highly degraded organic matter rich in nitrogen and potassium in particular, resulting from the activity of earthworms is called

- A. Worm castings
- B. Vermicompost
- C. Compost bedding
- D. Humus

Answer: B

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321. In which of the following class of Annelida, one pair ovaries and several pair testes are found

- A. Archiannelida

B. Hirudinea

C. Oligochaeta

D. Polychaeta

Answer: B



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322. Which one of the following pairs of items correctly belongs to the category of organs mentioned against it

A. Nephridia of earthworm and Malpighian tubules of Cockroach-

Excretory organs

B. Wings of honey bee and wings of crow- Homologous organs

C. Thorn of Bougainvillea and tendrils of Cucurbita- Analogous organs

D. Nictitating membrane and blind spot in human eye- Vestigial organs

Answer: A



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323. Aphrodite, commonly known as sea mouse is a

- A. Annelida
- B. Mollusca
- C. Insect
- D. Mammal

Answer: A



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324. Observer the blood vascular system or earthworm given in the following figure



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325. The two organisms which breathe only through their moist skin are

- A. Fish and frog
- B. Frog and earthworm
- C. Leech and earthworm
- D. Fish and earthworm

Answer: C

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326. Earthworm are

- A. Uricotelic under conditions of water scarcity
- B. Ammonotelic when plenty of water is available
- C. Ureotelic when plenty of water is available

D. Unicotelic when plenty of water is available

Answer: B



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327. In the 4th 5th and 6th segments of earthworms lying above pharyngeal mass and connected with pharyngeal glands are found small, red coloured follicular bodies called

- A. Septal glands
- B. Blood glands
- C. Salivary glands
- D. Nephridia

Answer: B



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328. Region of Earthworm which is forest of nephridia is

- A. Clitellar region
- B. Pharyngeal region
- C. Typhlosolar region
- D. Intestine region

Answer: A



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329. Chloragogen cells are present in

- A. Body wall of Leucosolenia
- B. Blood of Earthworm
- C. Coelomic fluid of Earthworm
- D. Blood of Cockroach

Answer: C



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330. Leech is

- A. Carnivorous
- B. Sanguivorous
- C. Ectoparasite
- D. Both (b) and (c)

Answer: D



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331. In Earthworm genital papillae occur in segments

- A. 16 and 17

B. 16 and 18

C. 17 and 19

D. 17 and 18

Answer: C



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332. Flow of blood in dorsal blood vessel of Earthworm is

A. Backward

B. Forward

C. Sideward

D. Downward

Answer: B



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333. The lateral hearts in earthworms have

- A. Four pairs of valves and are situated in segments 7 and 9
- B. Four pairs of valves and are situated in segments 6 and 8
- C. Three pairs of valves and are situated in segments 8 and 10
- D. Two pairs and valves and are situated in segments 6 and 11

Answer: A



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334. The female genital aperture in earthworm is present ventrally on the segment

- A. 10th
- B. 12th
- C. 14th
- D. 18th

Answer: C



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335. In earthworm the characteristic internal median fold of dorsal wall of the intestine called typhlosole is present in

- A. 5 to 9 segments
- B. 9 to 14 segments
- C. 26 to 35 segments
- D. 15 to last segment

Answer: C



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336. Hearts of Pheretima are situated in the segments

A. 10,13,16 and 17

B. 7,9,12 and 13

C. 4,5,10 and 13

D. 11,14,17 and 18

Answer: B



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337. In earthworm fertilization occurs in

A. Oviduct

B. Spermatheca

C. Clitellum

D. Coccon

Answer: D



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338. The main function of clitellum is

- A. Coccon formation
- B. Locomotion
- C. Excretion
- D. Copulation

Answer: A



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339. Pheretima is

- A. Sterile
- B. Hermaphrodite
- C. Radially symmetrical

D. Dioecious

Answer: B



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340. In Pheretima, gizzard, buccal cavity pharynx, oesophagus, pharyngeal nephridia receive the blood from this blood vessel

- A. Supra oesophageal
- B. Lateral oesophageal
- C. Dorsal Blood
- D. Subneural

Answer: C



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341. Major nitrogenous excretory material of Earthworm is

- A. Uric acid
- B. Ammonia
- C. Urea
- D. Amino acids

Answer: C



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342. Occurrence of Earthworm in soil is indicated by

- A. Heaps of small rounded pellets
- B. Heaps of dry powder soil
- C. Holes
- D. Cast skin

Answer: A



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343. Clitellum of Pheretima is thick girdle that is

- A. Nonglandular around 14-16 segments
- B. Glandular around 14-16 segments
- C. Glandular around 16-18 segments
- D. Nonglandular around 16-18 segments

Answer: B



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344. The location of lymph glands in Pheretima is

- A. 4th, 5th and 6th segments

B. 10th → 20th segments

C. 26th to the last segments

D. 13th segment

Answer: C



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345. Trochophore larva is found in

A. Chiton

B. Nereis

C. Aphrodite

D. All of these

Answer: D



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346. Choose the correct combination of labelling from the options given



A. A-testis, B- spermatheca, C- seminal vesicle, D-ovary E-vas deferens F- accessory gland

B. A- spermatheca, B- testis, C- ovary, D-seminal vesicle, E- vas deferens, F-accessory gland

C. A- spermatheca, B- testis, C- seminal vesicle, D- ovary, E- vas deferens, F- accessory gland

D. A- spermatheca, B- testis, C- accessory gland, D- ovary, E- vas deferens, F-seminal vesicle

Answer: C

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347. Earthworm has

- A. Two eyes
- B. Many eyes
- C. No eyes
- D. One eyes

Answer: C

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348. Photoreceptors of Earthworm occur on

- A. Clitellum
- B. Anal segment
- C. Dorsal Surface
- D. Lateral sides

Answer: C

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349. Examine the ventral view of earthworm and identify A, B and C



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350. *Pheretima posthuma* (earthworm) is highly useful as or Most important use of earthworm is

- A. Their burrows make the soil loose
- B. They make the soil porous leave their castings and take organic debris in the soil
- C. They are used as fish meal
- D. They kill the birds due to biomegnification of chlorinated hydrocarbons

Answer: B



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351. Earthworm possesses hearts

- A. 6 pairs
- B. 4 pairs
- C. 2 pairs
- D. 1

Answer: B



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352. The septal and pharyngeal nephridia open into alimentary canal and are of enteronephric type. It is an adaptation for

- A. Conservation of water
- B. Conservation of heat

C. Regulation of temperature

D. Regulation of amino acids

Answer: A



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353. In earthworm gizzard is found in

A. 8-10 Segment

B. 8th segment

C. 27th segment

D. 8-11 segment

Answer: B



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354. In earthworm ovary is situated in segment

A. 13

B. 9

C. 10

D. 26

Answer: A



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355. Blood of Pheretima is

A. Blue with haemocyanin in corpuscles

B. Blue with haemocyanin in plasma

C. Red with haemoglobin in corpuscles

D. Red with haemoglobin in plasma.

Answer: D



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356. Suctorial mouth occurs in

A. Butterfly

B. Leech

C. Taenia

D. Cockroach

Answer: B



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357. The animal which does not show any metamorphosis of larval stage

is

A. Pheretima pasthuma

B. Asterial

C. Musca domestica

D. Butterfly

Answer: A



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358. Which one of the following groups of *structures* / or *gans* have similar function

A. Typhlosole in earthworm, intestinal villi in rat and contractile

vacuole in Amoeba

B. Nephridia in earthworm Malpighian tubules in cockroach and

urinary tubules in rat

C. Antennae of cockroach tympanum of frog and clitellum of earthworm

D. Incisors of rat, gizzard (proventriculus) of cockroach and tube feet of starfish

Answer: B

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359. Earthworms have how many segments

A. 85-400

B. 100-200

C. 20-95

D. 115-120

Answer: D

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360. Specialised respiratory organs are absent in or in which of the following respiration occurs without any respiratory organ

- A. Mosquito larva
- B. Tadpole
- C. Cockroach
- D. Earthworm

Answer: D



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361. Blood of Earthworm is red because its haemoglobin is

- A. Intracellular
- B. Intracellular
- C. Oxidised

D. Reduced

Answer: B



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362. Earthworm found in india is

A. Lumbricus

B. Pheretima

C. Drawida

D. Megascolex

Answer: B



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363. Which one assists in locomotion

- A. Trichocysts in Paramecium
- B. Pedicellariae of star fish
- C. Clitellum in Pheretima
- D. Posterior sucker in Hirudinaria

Answer: D

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364. Trait common amongst Earthworm Leech and Centipede is

- A. Absence of legs
- B. Hermaphrodite nature
- C. Ventral nerve cord
- D. Malpighian tubules

Answer: C

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365. Leech secretes which of the following anticoagulant

- A. Hirudin
- B. Heparin
- C. Serotonin
- D. Histamine

Answer: A



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366. In Earthworm arrangement of blood vessels is

- A. Different in last fifteen segments
- B. Different in first thirteen segments
- C. Same throughout

D. Different in middle thirteen segments

Answer: B



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367. Chloragogen cells are involved in

A. Digestion

B. Excretion of water

C. Respiration

D. Fat storage

Answer: D



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368. Excretory organs of Earthworm are

- A. Coelom
- B. Flame cells
- C. Nephridia
- D. Gizzard

Answer: C

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369. Spermathecae in earthworm is

- A. For producing sperm
- B. For storage of sperm obtained from male earthworm during copulation and used in future
- C. Both (a) and (b)
- D. None of these

Answer: B



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370. In Earthworm the effective organ for food digestion is

- A. Pharynx
- B. Buccal cavity
- C. Mouth
- D. Stomach

Answer: A



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371. Life span of Earthworm is

- A. 1-3 years
- B. 2-8 years
- C. 3.5-10.5 years

D. 6-8 years

Answer: C



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372. Copulation period of Earthworm is

A. One hour

B. Two hours

C. Four hours

D. About one week

Answer: A



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373. In pheretima nephridia occur in

- A. All segmen except 1-4 and 10-14
- B. 1-2, 4-6, 15 to last segments
- C. Meganephridia in pre- clitellar and microphridia in post- clitellar segments
- D. Micronephridia in all segments meganephridia from clitellar region to end

Answer: D



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374. In Earthworm

- A. Overies are larger than testes
- B. Testes are larger then ovaries
- C. Both are equal
- D. Right testes are larger than ovaries

Answer: A



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375. Trochophore larva is found in

- A. Annelida
- B. Platyhelminthes
- C. Coelenterate
- D. Prawn

Answer: A



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376. Name the animal having both setae and nephridia

- A. Sea Urchin

B. Sea Mouse

C. Sea anemone

D. Sea pen

Answer: B



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377. Spermathecal pores of Pheretima are present in

A. 5/6, 6/7, 7/8 and 8/9

B. 6/7, 7/8, 8/9 and 9/10

C. 1/2, 2/3, 3/4 and 4/5

D. 14/15, 15/16, 16/17 and 17/18

Answer: A



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378. Typhlosole found in Pheretima occurs in

- A. Oesophagus
- B. Stomach
- C. Gizzard
- D. Intestine

Answer: D



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379. Chromophil cells present on pharynx of Earthworm take part in secretion of

- A. Mucus
- B. Lipases
- C. Carbohydrases
- D. All the above

Answer: A



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380. Nephrostome occurs in

- A. Septal nephridia
- B. Integumentary nephridia
- C. Pharyngeal and septal nephridia
- D. Pharyngeal and integumentary nephridia

Answer: A



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381. Animals having multiple or numerous setae are included under

- A. Polychaeta

B. Oligochaeta

C. Hirudinea

D. Onychophora

Answer: A



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382. Movement of coelomic fluid helps in locomotion of

A. Hydra

B. Frog

C. Starfish

D. Earthworm

Answer: D



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383. Which of the following annelids is a parasite on snails and frogs

- A. Acanthobdella
- B. Pontobdella
- C. Branchellion
- D. Glossiphonia

Answer: A



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384. Which one is not deuterostome

- A. Chordata
- B. Cephalochordata
- C. Annelida
- D. Echinodermata

Answer: C



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385. In Earthworm mouth is situated on

- A. Prostomium
- B. Peristomium
- C. Stomium
- D. Protostomium

Answer: B



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386. A mismatch is

- A. odd toe-Horse

- B. Pheretima-parapodia
- C. Hydra-Cnidaria
- D. Cartilaginous Fish-Shark

Answer: B



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387. The nerve chord in earthworm originates from

- A. Supra - pharyngeal ganglia and has a fused pair of ganglia in each segment from the 3rd to the last
- B. Supra- pharyngeal gangila and has a fused pair of gangila in each segment form the 4th to the last
- C. Sub- pharyngeal gangila and has fused pair of ganglia in each segment from the 5th to the last

D. Sub- Pharyngeal ganglia and has a fused pair of ganglia in each segment from the 6th to the last

Answer: C

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388. Pheretima and its close relatives derive nourishment from

- A. Sugarcane roots
- B. Decaying fallen leaves and soil organic matter
- C. Soil insects
- D. Small pieces of fresh fallen leaves of maize etc

Answer: B

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389. In Earthworm neurons are

- A. Sensory
- B. Motor
- C. Both (a) and (b)
- D. Mixed

Answer: C



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390. In pheretima septa are absent

- A. 5/6, 10/11
- B. 5/6, 7/8
- C. 6/7, 7/8
- D. First four segments

Answer: D



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391. Enteronephric nephridia of earthworm are concerned with

- A. Excretion
- B. Respiration
- C. Digestion
- D. Osmoregulation

Answer: A



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392. Blood vessel in pheretima having valves is

- A. Dorsal

B. Ventral

C. Lateral

D. Integumentary

Answer: A



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393. Oxygen carrying blood pigment of Earthworm is or which of the following is absent in the coelomic fluid of earthworm

A. Haemocyanin

B. Haemoglobin

C. Micrometanephridia

D. Meganephridia

Answer: B



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394. Nephridia of Pheretima are

- A. Protonephridia
- B. Solenocytes
- C. Micrometanephridia
- D. Meganephridia

Answer: C



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395. In Earthworm the dorsal wall of the intestine from the 26th segment to 95th segment forms a median internal fold called

- A. Trochophore
- B. Typhlosole
- C. Clitellum

D. Trachea

Answer: B



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396. Which is not correct for Earthworm

- A. it walks with a speed of $25\text{cm} / \text{min}$
- B. It can remain without oxygen for 6 – 30 hrs
- C. Life span is 3.5 – 10 years
- D. Setae easily dissolve in KOH

Answer: D



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397. In Pheretima coelomic fluid contains

A. Dissolved haemoglobin

B. Dissoved RBC

C. Broken WBC

D. Wastery plasma

Answer: D



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398. Locomotory organ of annelida is

A. Sucker

B. Parapodia

C. Setae

D. All of these

Answer: D



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399. External segmentation is absent but internal segmentation is present in

- A. Polychaeta
- B. Oligochaeta
- C. Archiannelida
- D. Hirudinea

Answer: C



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400. See the following figure and identify A to F



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401. Phaosome in Earthworm is

- A. Lens
- B. Pigment
- C. Nephridium
- D. Hormone

Answer: A



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402. In Earthworms setae are present in all segments except

- A. First and the last segments
- B. First and the clitellum
- C. First segment
- D. Clitellum and last segments

Answer:



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403. Which one will excrete silicates consumed by Earthworm along with food

- A. Intestinal cells
- B. Basal cells
- C. Chloragogen cells
- D. Flame cells

Answer: C



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404. Pharyngeal nephridia of Earthworm pheretima occur in segments

- A. 3,4 and 5
- B. 4,5 and 6

C. 5,6 and 7

D. 6,7 and 8

Answer: B



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405. Bilateral symmetry blastopore mouth and true coelom occur in

A. Echinodermata

B. Chordata

C. Annelida

D. Platyhelminthes

Answer: C



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406. Which one is correct

- A. Flatworms are eucoelomates
- B. Fishes are radially symmetrical
- C. Birds are poikilothermic
- D. Earthworm is metamerically segmented

Answer: D



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407. Pick up the mismatched

- A. Annelida- Hydra
- B. Nematelminthes-Ascaris
- C. Arthropoda- Cockroach
- D. Echinodermata- Starfish

Answer: A



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408. Locomotion occurs in Earthworm with the help of

- A. Setae
- B. Setae and circular muscles
- C. Parapodia
- D. Setae, circular muscles and longitudinal muscles

Answer: D



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409. Which of the following nephridia does not found in earthworm

- A. Septal nephridia

B. Macro nephridia

C. Integumentary nephridia

D. Pharyngeal nephridia

Answer: B



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410. In which phylum of the body is segmented

A. Porifera

B. Coelenterata

C. Annelida

D. Mollusca

Answer: C



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411. Which one of the following species of earthworm is not recommended for vermicomposting

- A. *Eudrilus eugeniae*
- B. *Eisenia fetidae*
- C. *Perionyx excavatus*
- D. *Pheretima posthuma*

Answer: D



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412. Which of the following is incorrect for *Phretima*

- A. Genital papillae are present on 17th and 19th segment
- B. Male genital pores are present on 18th segment
- C. Clitellum is present on segments 24, 25 and 26
- D. Segments of earthworm are called somites

Answer: C



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413. The breakdown of detritus into smaller particles by earthworm is a process called

- A. Mineralisation
- B. Catabolism
- C. Humification
- D. Fragmentation

Answer: D



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414. Which one of the following structures in Pheretima is correctly matched with its function

- A. Setae- defence against predators
- B. Typhlosole-storage of extra nutrients
- C. Clitellum- secretes cocoon
- D. Gizzard-absorbs digested food

Answer: C

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415. Which of the following animals does not undergo metamorphosis

- A. Earthworm
- B. Tunicate
- C. Moth
- D. Starfish

Answer: A

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416. Which of the following feature is not present in *Periplaneta Americana*

- A. Schizocoelom as body cavity
- B. Inteterminate and radial cleavage during embryonic development
- C. Exoskeleton composed of N- acetylglucosmine
- D. Metamerically segmented body

Answer: B



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417. The presence of compound eyes is characteristics of the phylum

- A. Nematodes
- B. Mollusca
- C. Echinodermata

D. Arthropoda

Answer: D



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418. Which of the following is not an arachnid

A. Spider

B. Itchmite

C. Louse

D. Tick

Answer: C



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419. The process of conversion of a small cockroach into an adult cockroach is called as

- A. Moulting
- B. Metamorphosis
- C. Ecdysis
- D. Transformation

Answer: B



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420. Hexapoda is another name of

- A. Crustacea
- B. Arachnida
- C. Insecta
- D. Archiannelid

Answer: C



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421. Glow worm is

- A. Annelid
- B. Helminthes
- C. Insect
- D. Mollusca

Answer: C



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422. Which thing is common in leech, mosquito bed bug and rat

- A. All have anticoagulation

B. All have nucleus

C. All have no cellular membrane

D. All have sexual phase

Answer: D



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423. Cockroach belongs to class

A. Hexapoda

B. Apoda

C. Myriapoda

D. Cephalopoda

Answer: A



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424. The image formed in the eyes of cockroach is

- A. Apposition
- B. Superposition
- C. Both (a) and (b)
- D. None of these

Answer: A



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425. What is common among silver fish scorpion crab and honey bee

- A. Compound eyes
- B. Poison glands
- C. Jointed legs
- D. Metamorphosis

Answer: C

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426. Which one of the following groups of three animals is correctly matched with their one characteristic morphological feature?

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427. A moth is closely to

- A. Butterfly
- B. Cricket
- C. Beetle
- D. Wasp

Answer: A

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428. Which one of the following is the true description about an animal concerned

- A. Rat-left kidney is slightly higher in position than the right one
- B. Cockroach-10 pairs of spiracles (2 pairs on thorax and 8 pairs on abdomen)
- C. earthworm-the alimentary canal consists of a sequence of pharynx, oesophagus, stomach gizzard and intestine
- D. frog-body divisible into three regions-head, neck and trunk

Answer: B



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429. The biggest phylum in regard to the number of species is

OR Which one of the following have the highest number of species in

nature.

- A. Artropoda
- B. Platyhelminthes
- C. Chordata
- D. Protozoa

Answer: A



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430. The arthropods do not possess

- A. True coelom
- B. Exoskeleton
- C. Haemocoel
- D. Malpighian body

Answer: D



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431. The number of abdominal segments in male and female cockroach is

A. 10,10

B. 9,10

C. 9,9

D. 8,10

Answer: A



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432. Which of the following is the mouth part of housefly

A. Labrum

B. Epipharynx

C. Mandibles

D. Maxillary palps

Answer: C



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433. Which of the following animals is unisexual

A. Tapeworm

B. leech

C. sponge

D. earthworm

Answer: D



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434. Which of the following is not a characteristic features of arthropods

- A. Jointed appendages
- B. Usegmented body
- C. Moulting
- D. Articulated exoskeleton

Answer: B



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435. Note the following

- A. Fenestra
- B. Pedical
- C. Lacinia
- D. Flagellum
- E. Gelea
- F. Mentum
- G. Palpifer
- H. Cando

I. Glossa

Which of the above found in the first pair of maxillae in the case of cockroach

A. C,E,G and H

B. A,C,E and I

C. A,F,G and I

D. B,E,G and I

Answer: A



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436. In cockroach, which of the following is the principal motor centre

A. Supraoesophageal ganglia

B. Suboesophageal ganglia

C. metathoracic ganglia

D. abdominal ganglia

Answer: B



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437. The targa, sterna and pleura of cockroach body are joined by

A. Muscular tissue

B. Arthrodial membrane

C. Cartilage

D. Cementing glue

Answer: B



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438. Spers and scorpions are included in class

A. arachnida

B. echarida

C. antinozoa

D. anthozoa

Answer: A



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439. Book-lungs are respiratory organs which are found in

A. insects

B. crustaceans

C. Arachnids

D. Onychores

Answer: C



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440. Stink gland is found in

- A. 4th and 5 th targa of cockroach
- B. 5th and 6 th targa of cockroach
- C. 5th and 6th sterna of cockroach
- D. 4th and 5 th sterna of cockroach

Answer: B



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441. Maximum number of economically important species are in the class

Or

Which of the following classes has largest number of animals diplopoda

- A. Diplopoda
- B. Chilopoda

C. Crustacea

D. insecta

Answer: D



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442. Thich of the following is not an insect

Or

Cockroach, beetle

A. Bed bug

B. Mosquito, wasp

C. Spider, tick

D.

Answer: D



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443. Which of the following features is not present in the in the phylum arthropoda

- A. Chitinous exoskeleton
- B. metameric segmentation
- C. parapodia
- D. Jointed appendages

Answer: C



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444. What is the similarity between cockroach, anopheles and housefly

- A. cuticle covering the body
- B. two pair wings
- C. three pair legs

D. presence of cephalothorax

Answer: C



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445. The common characters found in centipede, cockroach, and crab are

- A. green gland and tracheae
- B. book lungs and antennae
- C. compound eyes and anal cerci
- D. jointed legs and chitinous exoskeleton

Answer: D



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446. Crayfish is a

A. crustacean animal

B. edible fish

C. poisonous fish

D. None of the above

Answer: A

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447. Which one of the following has an open circulatory system

A. Hirudinaria

B. Octopus

C. Pheretima

D. Periplaneta

Answer: D

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448. In which of the following sets all are vectors

- A. Physalia, musca domestica, anopheles
- B. amoeba, physalia, musca
- C. anopheles, musca, culex
- D. all of the above

Answer: C



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449. phlebotomus argentipus is a vector for

- A. Trypanosoma
- B. trypanosoma gambiense
- C. Leishmania donovani

D. Trypanosoma cruzi

Answer: C



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450. See the following figure and identify A to F in given diagram



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451. Respiration pigment of blood in cockroach is

A. Haemozoin

B. Haemocyanin

C. Haemoglobin

D. absent

Answer: D



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452. Which is a matching set in taxonomy

- A. Leech, locust, sea urchin, lobster
- B. star fish, jelly fish, cuttle fish, octopus
- C. Milliped, crab, centipede,coackroach
- D. Nereis, planaria, round worm, earthworm

Answer: C



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453. Book lungs are the respiratory organs in

- A. Protozoans

B. Cnidarians

C. Artropodes

D. Amphibians

Answer: C



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454. The taste receptors of cockroach are

A. Componiform sensillae

B. palps of maxillary and labium

C. tactile hairs

D.

Answer: C



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455. Bilateral symmetry, metameric segmentation coelom and open circulatory system are the characters of

- A. Annelida-Hydra
- B. arthropoda
- C. mollusca
- D. Echinodermata

Answer: B



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456. Pasteurella/Yersinia pestis (causal agent of bubonic plague) is transmitted by

- A. Bed bug/Cimexx
- B. Rat flea/xenopsylla
- C. louse/pediculus

D. Mosquito/aedes

Answer: B



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457. Among the following, colonial insects are

A. locusts

B. mosquitoes

C. white ants

D. bed bug

Answer: C



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458. Complete metamorphosis is observed in

- A. Silver fish
- B. Gypsy moth
- C. bed bug
- D. grasshopper

Answer: B

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459. Basic unit in the eye of cockroach/insect is

- A. retina
- B. rhabdome
- C. corneal facet
- D. ommatidium

Answer: D

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460. Malpighian tubules are

- A. Excretory organs of insects
- B. Excretory organs of frog
- C. respiratory organs of insects
- D. endocrine glands of insects

Answer: A



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461. Structure common between earthworm and cockroach is

Or Which one feature is common to leech cockroach and scorpion

- A. cocoon
- B. ommatidia
- C. dorsal nerve cord

D. ventral nerve cord

Answer: D



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462. Tumbler is pupa of

A. Housefly

B. Mosquito

C. butterfly

D. beetle

Answer: B



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463. What is common between earthworm and Periplaneta?

- A. both have red coloured blood
- B. both passess anal styles
- C. both have malpighian tubules
- D. both have segmented body

Answer: D

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464. In cockroach, larval and nymphal characters are maintained by

- A. ecdysone
- B. salivary glands
- C. parotid gland
- D. juvenile hormone

Answer: D

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465. The correct sequence of arrangements of segments in the leg of cockroach is

- A. Tibia, trochanter, femur, tarsus and coxa
- B. Trochanter, coxa, tibia, femur and tarsus
- C. coxa, femur, trochanter, tibia and tarsus
- D. coxa, trochanter, femur, tibia and tarsus

Answer: D



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466. Mouth parts of a butterfly are of type

- A. sponging
- B. siphoning
- C. piercing and suchking

D. chewing and sucking

Answer: B



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467. Conglobate gland occurs in

A. female cockroach

B. male cockroach

C. anopheles mosquito

D. culex mosquito

Answer: B



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468. Similarity between anopheles and culex is

A. eggs and laid in floating raft

B. respiratory siphon is present

C. eggs have lateral air floats

D. Males of bothh such juices of flowers and fruits

Answer: D



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469. In Housefly the larva lives in

A. water

B. muddy soil

C. dung

D. vegatation.

Answer: C



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470. In Pheretima, septa are absent between which segments

A. 3/4 and 9/10

B. 4/5 and 8/9

C. 5/6 and 7/8

D. 7/8 and 6/7

Answer: A



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471. The ingrowth of exoskeleton in the head of cockroach is called

A. Notum

B. Apodemes

C. Pleura

D. Tentorium

Answer: D



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472. An insect without pupa stage is

A. Mosquito

B. Silk moth

C. Bed bug

D. Butterfly

Answer: C



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473. young housefly/mosquito is known as

A. Maggot

B. Caterpillar

C. Nymph

D. Imago

Answer: D



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474. Which set includes pathogenic arthropods

A. Tse-tse fly, mosquito, flea-plague

B. Crab, culex, spider

C. anopheles, culex, cray fish

D. Silver fish, house fly, sandfly

Answer: A



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475. Which of the following causes parasitic castration of crab

- A. Sacculina
- B. Adamsia
- C. Spongilla
- D. None of these

Answer: A



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476. Ecdysone is produce by

- A. prothoracic gland
- B. Corpora allata
- C. corpora cardiaca

D. Abdominal gland

Answer: A



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477. Cockroach is

A. Carnivorous

B. Herbivorous

C. Omnivorous

D. Sangauivorous

Answer: C



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478. Johnston's organ found in

A. Antenna of mosquito

B. Head of cockroach

C. abdomen of housefly

D. abdomen of spider

Answer: A



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479. Which disease is spread by housefly

A. Dengue fever

B. Encephalitis

C. Filariasis

D. Gangrene

Answer: D



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480. Halteres in mosquitoes and housefly develop from

- A. Prothorax
- B. Metathorax
- C. Mesothorax
- D. Head

Answer: B



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481. Mouth parts of cockroach are of

- A. Piercing and sucking
- B. sucking and siphoning
- C. cutting and biting type

D. suchking and rasping

Answer: C



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482. In insect, oxygen is carried to different tissues by

Or. In insects, respiratory gas exchange occurs through

- A. diffusion through surface
- B. Tracheal tubes
- C. Respiratory pigment through blood
- D. Gills

Answer: B



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483. Wings are vestigial in cockroach

- A. female *blatta orientalis*
- B. male *blatta orientalis*
- C. Male *periphanata americana*
- D. Female *periphanata americana*

Answer: A



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484. Anal cerci occur in

- A. both male and female cockroaches
- B. male cockroach
- C. female cockroach
- D. female ascaris

Answer: A



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485. In the life cycle of mosquito, comma-shaped stage is

- A. Larval stage
- B. Pupal stage
- C. Imago stage
- D. None of these

Answer: B



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486. The order of metamorphosis in housefly is

- A. Egg, nymph, pupa and adult.

B. Egg, larva, nymph and adult

C. Egg, larva, pupa and adult

D. Egg, pupa, larva and adult

Answer: C



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487. An aquatic living fossil, with ancient origin and many primitive characters which respire through book gills is

A. Limulus

B. cancer

C. Lucifer

D. Dophnia

Answer: A



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488. Hormone produced by corpora allata in insects is

- A. Growth hormone
- B. Moulting hormone
- C. Inhibiting hormone
- D. juvenile hormone

Answer: D



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489. Male and female cockroaches can be distinguished externally through

- A. Anal styles in male
- B. anal cerci in female
- C. anal style and antennae in females

D. both a and c

Answer: A



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490. Periplaneta shows

- A. complete metamorphosis
- B. Incomplete metamorphosis
- C. No metamorphosis
- D. gradual metamorphosis

Answer: D



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491. Housefly feeds on sugar by

A. Crushing its crystals and then sucking the power

B. crushing and eating

C. sucking

D. dissolving in saliva and sucking

Answer: D

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492. Metamorphosis of insects is regulated through hormone

A. Pheromone

B. Thyroxine

C. Exdysone

D. all the above

Answer: C

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493. See the following figure and identify structure A, B, C and D



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494. In Cockroach, the number of ganglia are

- A. Two pairs thoracic and four pairs abdominal
- B. Three pairs thoracic and six pairs abdominal
- C. Three pairs thoracic five pairs abdominal
- D. Two pairs thoracic and six abdominal

Answer: B

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495. Mouth part present in female Anopheles but absent in male is

- A. Maxillae
- B. Antennae
- C. Proboscis
- D. Mandibles

Answer: D



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496. An insect regarded as greatest mechanical carrier of disease is

- A. Pediculus
- B. Cimex
- C. Musca
- D. Xenopsylla

Answer: C



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497. Which insect is called 'Horn Beetle'?

- A. Tribolium
- B. Corcyra
- C. Trogoderma
- D. None of these

Answer: D



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498. Which of the following is an r-strategist?

- A. Human

B. Insect

C. Rhinoceros

D. Whale

Answer: B



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499. The major excretory product of arthropod is

A. Ammonia

B. Urea

C. Uric acid

D. Trimethylamine oxide

Answer: C



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500. Common feature between housefly and honey bee is

- A. Head
- B. Mouthparts
- C. Abdomen
- D. Three pairs of jointed legs

Answer: D



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501. Adult Culex and Anopheles can be distinguished with the help of

- A. Mouth parts/colour
- B. Sitting posture
- C. Antennae/wings
- D. Feeding habits

Answer: B



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502. A larval stage occurs in the life history of all members of the group

- A. Frog, Lizard and Cockroach
- B. Ascaris, Housefly and Frog
- C. Housefly, Earthworm and Mosquito
- D. Butterfly, frog and Mosquito

Answer: D



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503. Difference between male and female Anopheles occurs in

- A. Proboscis

B. Wings

C. Antennae

D. Size

Answer: C



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504. Tracheae of Cockroach and Mammal are similar in having

A. Paried nature

B. Noncollapsible walls

C. Cliated inner lining

D. Origin form head

Answer: B



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505. Pupa occurs in the life cycle of

- A. Cockroach
- B. Housefly
- C. Honey Bae
- D. Both (b) and (b)

Answer: D



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506. Which part of Cockroach has both exoskeleton and endoskeleton

- A. Head
- B. Thorax
- C. Abdomen
- D. All the above

Answer: A



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507. In Cockroach, wings are absent from

- A. Prothorax
- B. Mesothorax
- C. Mehtathorax
- D. None of these

Answer: A



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508. The first animals to fly were

- A. Mammals

B. Lizards

C. Birds

D. Insects

Answer: D



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509. Which is nonpoisonous

A. Scorpion

B. Centipede

C. Crab

D. Spider

Answer: C



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510. Which one is a tracheate group

- A. King Crab -Scorpion- Housefly
- B. Crab -Centipede- Cockroach
- C. Spider - Peripathus- Mosquito
- D. Bed Bug - Sandfly -Silkworm

Answer: D



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511. In cockroach, metamorphosis requires

- A. Three weeks
- B. 40-70 days
- C. 10-30 days
- D. 5-13 days

Answer: B



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512. Male cockroach can be distinguished from the female cockroach through.

- A. Longer antennae
- B. Longer abdomen
- C. Wingless body
- D. All the above

Answer: B



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513. Cockroach blood does not contain respiratory pigment. It means

- A. It does not respire
- B. Cockroach respire anaerobically
- C. Oxygen passes to all the tissue through diffusion
- D. Oxygen reaches tissue through tracheoles

Answer: D

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514. Which is common amongst Fly, Mosquito and Cockroach

- A. Open excretory system
- B. Two pairs of wings
- C. All belong to class insecta
- D. 13-chambered heart

Answer: C

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515. Peiplaneta differs from Bletta in

- A. Reduced wings in Blatta and developed wings in Periplaneta
- B. Reverse of(a)
- C. Anal styles
- D. Anal cerci

Answer: A



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516. Which is characteristic of Cockroach

- A. 13- chambered heart
- B. Reduced wings
- C. Cocoon formation

D. Segmented body

Answer: A



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517. Arrthenotoky is parthenogenetic development found in

A. All insects

B. Mosquitoes

C. Butterflies

D. Honey bees, Wasps and Ants

Answer: D



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518. Sandfly is

A. Ancylostoma

B. Musa

C. Phelebotoms

D. Drosophila

Answer: C



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519. In Cockroach the langest podomere is

A. Coxa

B. Trochanter of Femur

C. Tibia

D. Tarsus

Answer: C



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520. Tick the correct matching

- A. Archnida - Ticks, Mites
- B. Prototheria - Scaly Another
- C. Prokaryotes - Green Algae
- D. Annelida - Ascaris, Taenia

Answer: A



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521. Which one process larvel stages

- A. Cockraoch and Housfly
- B. Housefly and Butterfly
- C. Cockroach and Honey Bee

D. Grasshopper and Dragongly

Answer: B



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522. In Butterfly, long coiled siphoning tubes is formed from

A. Labrum

B. Maxilla

C. Labium

D. Mandibles

Answer: B



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523. If juvenile hormone is absent when silkworm moults, it will

A. Moults into another larval stage

B. Moults into pupa

C. Moults into adult

D. Die

Answer: B



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524. Which is absent in arthropoda

A. Compound eye

B. Chitinous exoskeleton

C. Closed blood vascular system

D. Malpighian tubules

Answer: C



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525. Swarming is found in

- A. Houseflies
- B. Mosquitoes
- C. Locusts
- D. Pyrilla

Answer: C



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526. Complete metamorphosis present in

- A. House fly and mosquito
- B. House fly and cackroach
- C. Mosquito and cockroach

D. None of these

Answer: A



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527. Pseudotrachea of Housefly is formed by

A. Labella

B. Rostrum

C. Haustellum

D. Basiproboscis

Answer: A



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528. Spiracles of cockroach which are larger and always kept open are

A. First and second pairs

B. First and third pairs

C. First and tenth pairs

D. Second and thrid pairs

Answer: B

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529. Corpora allata are removed from a nymph. It will

A. Remain nymph for life

B. Become adult

C. Change to next nymph immediately but will remain in that state

D. Die after some time

Answer: B

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530. Aedes is vector of

- A. Plague
- B. Malaria
- C. Filaria
- D. Encephalities and Dengue

Answer: D



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531. Antennae of Cockroach have

- A. Gustatory receptors
- B. Auditory receptors
- C. Tactile receptors

D. Tactile and olfactory receptors

Answer: D



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532. Which is wrong for an insect

- A. Cephalization and unjoined appendages
- B. Chitinous exoskeleton and wings
- C. Cephalisation and complete methamorphosis
- D. Well developed sensory organs and haemocoel

Answer: A



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533. Millipede (Julus) and Centipede (Sclopendra) are both included under

- A. Arachnida
- B. Myriapoda
- C. Scaphopoda
- D. Pelecypoda

Answer: B



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534. Spider prepare the web with the help to

- A. Lags
- B. Mouth
- C. Spinnerets
- D. Salivary glands

Answer: C



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535. Open circulatory system is not of physiological hindrance in Cockroach because

- A. Heart is simple but chambered
- B. Blood is colourless
- C. Circulatory and respiratory systems are not connected
- D. Excretion occurs through malpighian by the

Answer: C



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536. In cockroach, digestive juice is secreted by the

A. Gizzard

B. Malpighian tubules

C. Crop

D. Osesophagus

Answer: C



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537. Number of fertilized eggs in ootheca of Cockroach is

A. 16 pairs in two rows

B. 16 in two rows

C. 10 in one rows

D. 8 in two rows

Answer: B



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538. In cockroach, the ootheca is formed by the secretion of

- A. Conglobate gland
- B. Phallic gland
- C. Collateral gland
- D. Mushroom gland

Answer: C



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539. Hard exoskeleton cephalothrax and gills for respiration are characteristics of

- A. Insecta
- B. Myriapoda
- C. Polychaeta

D. Crustacea

Answer: D



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540. Palaemon (Prawn) is a

A. Insect

B. Crustacean

C. Soft shelled mollusc

D. Fish

Answer: B



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541. Archnida contains

A. Wasps

B. Insects

C. Spiders

D. Beetles

Answer: C



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542. Ascaris and cockroach resemble each other in

A. Pseudocoel

B. Sexual dimorphism

C. Nephridia

D. Beetles

Answer: B



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543. Which among the following is a social insect

A. While Ants

B. Locusts

C. Bed Bugs

D. Mosquitoes

Answer: A



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544. Periplaneta belongs to phylum

A. Annelida

B. Mollusca

C. Echinodermata

D. Arthropoda

Answer: D



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545. Select the correct statement from the ones given below with respect to *Periplaneta americana*.

- A. Nervous system localted dorsally, consists of segmentally arranged gangila joined by a pair of longitudinal connectives
- B. Males bear a pair of short thread like and styles
- C. There are 16 very long Malpighain tubles present at the junction of midgut and hindgut
- D. Grinding of food is carried out only by the mouth parts.

Answer: B



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546. A female Anopheles mosquito can be recognized by

- A. Proboscis and palpi are long and more or less of equal length
- B. Proboscis long and palpi short
- C. Proboscis short and palpi long
- D. Both proboscis and palpi are short

Answer: A



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547. The open circulatory system is found in

- A. earthworm
- B. cockroach
- C. snail
- D. Both a and b

Answer: D



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548. Holometaboly is found in

- A. Lady Bird Beetle
- B. Bed Bug
- C. Cockrtoach
- D. Grass Hopper

Answer: A



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549. Number of malpighian tubules present in Cockroach is

- A. 50-60

B. 80-90

C. 100-150

D. 200-250

Answer: C



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550. Arthropoda is differentiated from annelids by

A. Segmented body

B. Absence of nephridia

C. Eyes

D. None of the above

Answer: B



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551. An arthropod belonging to onychophora which possesses nephridia is

- A. Limulus
- B. Peripatus
- C. Daphnia
- D. Lepisma

Answer: B



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552. Paurometaboly is

- A. Completer metamorphosis
- B. Gradual metamorphosis
- C. Incomplete metamorphosis
- D. Complete metabolism

Answer: B



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553. About how many times does the nymph of *Periplaneta americana* undergo moulting before becoming an adult ?

A. 4

B. 2

C. 17

D. 13

Answer: D



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554. Number of moults undergone by caterpillar of *Bombys mori* is

A. 2

B. 4

C. 6

D. 8

Answer: B



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555. Tripedal locomotion occurs in

A. Kangaroo

B. Cockroach

C. Snail

D. Earthworm

Answer: B



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556. Which one of the following sets of animals shows a close taxonomic relationship

- A. Jelly fish, Cuttle fish, Cat fish
- B. Honey bee, Crayfish, Spider
- C. Alligator, Nautilus, Turtle
- D. Kangaroo, Octopus, Salamandar

Answer: B



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557. Class crustacea have which of the followig feature

- A. Cephalothorax, biramous appendages and gills
- B. Cephalothorax, book lungs and chitinous exoskelton
- C. Head and thorax, biramous appendages and bool lungs

D.

Answer: A



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558. To which of the following class Limulus belongs

A. Chilopoda

B. Arachnida

C. Crustacea

D. Merostomata

Answer: D



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559. which of the following belongs to Phylum Arthropoda/insecta

- A. Star fish
- B. Gold fish
- C. Silver fish
- D. Cuttle fish

Answer: C

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560. Caterpillar and maggot are

- A. Larvae
- B. Nymphs
- C. Adults
- D. Pupa

Answer: A

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561. The larva of Housefly lacks

- A. Eyes
- B. Wings
- C. Spiracles
- D. all of the above

Answer: B



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562. Mouth parts of housefly are called as

- A. Biting & Sucking type
- B. Sponging & Sucking type
- C. Biting & chewing type

D. None of these

Answer: B



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563. Which one of the following is not a correct pair

- A. Trochophore-Annelida
- B. Bipinnaria-Echinodermata
- C. Tornaria-Arthropoda
- D. Planula-Coelenterata

Answer: C



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564. Crustacean fishery involves

A. Lobster and Prawn

B. Shells of Cuttle fish

C. Mussels and Squids

D. Oysters and Crab

Answer: A



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565. Wriggler is the larva of

A. Cockroach

B. Mosquito

C. Butterfly

D. Housefly

Answer: B



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566. Superficial meroblastic cleavage occurs in

- A. Reptiles
- B. Birds
- C. Mammals
- D. Insects

Answer: D



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567. Which of the following respire by gills.

- A. Prawn
- B. Frog
- C. Crocodile

D. Whale

Answer: A



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568. Chitin is found in

A. Mollusca

B. Arthropoda

C. Echinodermata

D. Coelenterata

Answer: B



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569. What distinguishes an insect from crustacean

- A. Number of eyes
- B. Arrangement of nerve cords
- C. Number of appendages
- D. Presence of wings

Answer: C

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570. Common feature in earthworm and cockroach is

- A. Cuticle(Exoskeleton)
- B. Solid and ventral nerve cord
- C. Nephridia
- D. Malpighian tubules

Answer: B

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571. The given figure is of repr. System of femal cockroach. The correct labellins indicated by A,B and C are respectively.



- A. A-Spermatheca, B-Collateral glands , C-Tegmina
- B. A-Spermatheca, B-Seminal vesicle, C-Gonapophyses
- C. A-Phallic gland, B-Collateral glands, C-Gonapophyses
- D. A-Spermatheca, B-Collateral glands, C-Gonapophyses

Answer: D



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572. Organ of mastication in cockroach is

- A. Labrum
- B. Labium

C. Mandibles

D. Maxilla

Answer: C



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573. Which of the following is an insect.

A. Moth

B. Mites

C. Prawn

D. Scorpion

Answer: A



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574. In cockroaches during the digestion of food, the enzymes cellulase in synthesised by

- A. Saliva
- B. Lining cells of midgut
- C. Bacteria in the midgut
- D. Cellulase is never synthesised

Answer: C



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575. In curstaceans, respiration takes place by

- A. Gills
- B. Book lungs
- C. Ctendia
- D. Trachea

Answer: A



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576. Which of the following is correct for the common cockroach ?

- A. The food is ground by mandibles and gizzard
- B. Malpighian tubules are excretory organ projecting out from the colon
- C. Oxygen is transported by haemoglobin in blood
- D. Nitrogenous excretory product is urea

Answer: A



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577. Cray Fish belongs to

A. Pisces

B. Mollusca

C. Arthropoda

D. Anthozoa

Answer: C



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578. Which one does not occur in Cockroach leg

A. Tibia

B. Femur

C. Fibula

D. Coxa

Answer: C



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579. Hind wings of mosquitoes are termed as

- A. Coxa
- B. Elytra
- C. Halteres
- D. Tentorium

Answer: C



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580. The given figures are related with mouth parts of cockroach. Identify

A to E



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581. Match the following and choose the exact combinaton.



A. A-(iv), B-(iii), C-(i),D-(ii)

B. A-(i),B-(ii),C-(iii),D-(iv)

C. A-(ii),B-(iv),(C-(i),D-(iii)

D. A-(iii), B-(i), C-(ii), D-(iv)

Answer: C



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582. Ommatidia serve the purpose of photoreceptioin in

A. Sunflower

B. Cockroach

C. Frog

D. Humans

Answer: B



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583. Mouth part of mosquito is

- A. Sucking and piercing type
- B. Sponging type
- C. Biting and chewing type
- D. None of these

Answer: A



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584. Vision in cockroach is

- A. Monocular

B. Binocular

C. Ultrasonic

D. Mosaic

Answer: D



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585. Which one of the following is a matching pair of an animal and a certain phenomenon it exhibits

A. Taenia-Polymorphism

B. Pheretima-Sexual dimorphism

C. Musca-Complete metamorphosis

D. Chamaeleon-Parthenogenesis

Answer: C



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586. Haemocoel is found in

- A. Hydra and Aurelia
- B. Taenia and Ascaris
- C. Balanoglossus and Herdmanla
- D. Cockroach and Pila

Answer: D



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587. Universal character of insect is

- A. Two pair of wings
- B. Compound eyes
- C. Three pairs of legs
- D. Both b) and c)

Answer: D



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588. Larvae of beetles are known as

A. Caterpillars

B. Grubs

C. Maggots

D. Nails

Answer: B



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589. Scorpion belongs to a class to which one of the following also belongs.

A. Ticks

B. Crab

C. Barnacles

D. Cockroach

Answer: A



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590. Blood of which of the following is colourless

A. Earthworm

B. Leech

C. Cockroach

D. Frog

Answer: C



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591. In Arthropoda, head and thorax are often fused to form cephalothorax, but one of the following classes is the body divide into head, thorax and abdomen

- A. Crustacea
- B. Arachnida and Crustacea
- C. Insecta
- D. Myriapoda

Answer: C



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592. The given figure is associated with hed region of cockroach. Identify

A to F



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593. The diagram represents the reproductive organs of male cockroach.

Choose the correct combination of labelling.



A. a-8th sternum b-anal cercus, c-10th tergum, d-anal style

B. a – 10th tergum, b-anal cercus, c-anal style, d – 8th sternum

C. a-anal style, b-anal style, c – 10th tergum, d-anal cercusa-anal
cercus, b-8th sternum, c – 10th tergum, d-anal k

D.

Answer: A



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594. What is common between an earthworm, a cockroach and a centipede

- A. Sexual dimorphism
- B. Metamorphism
- C. Chitinous exoskeleton
- D. Haemocoel

Answer: D

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595. What is common between a moth, a frog and a mosquito

- A. The body is clearly differentiated into head, thorax and abdomen
- B. the life history is carried out in water
- C. The skin acts as the main respiratory organ
- D. Their larvae feed on a food different from that of the adult

Answer: D

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596. The peculiar pungent smell of cockroach is produced by the secretions of

- A. Phermones
- B. Flame cells
- C. Addomonal glands
- D. Cervical glands

Answer: A



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597. The cockroach of genus Blatta is also called

- A. German cockroach
- B. Australian cockroach
- C. Orient cockraoch

D. American cockroach

Answer: C



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598. The young one of cockroach is called

A. Caterpillar

B. Nymph

C. Fingering

D. Maggot

Answer: B



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599. Which one of the following feature is possessed by Crustaceans and not by insects

- A. Paired limbs
- B. Two pairs of antenna
- C. Chitinous exoskeleton
- D. Bilateral symmetry

Answer: B



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600. The head of cockroach lacks

- A. Cardo
- B. Gena
- C. Trochanter
- D. Frons

Answer: C



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601. The adhesive pads (soft-pada) present in legs of cockroachs are

- A. Galea
- B. Lacinea
- C. Glossa
- D. Plantulae

Answer: D



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602. Which one of the following are examples of arthropoda

- A. Silver fish, star fish, prawn

B. Calm worm, apple snail, honeybee

C. Sea star, tongue worm, scorpion

D. Cockroach, scorpion, prawn

Answer: D



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603. Insects are

A. Amminotelic

B. Ammonotelic

C. Ureotelic

D. Uricotelic

Answer: D



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604. Gizzard of cockroach is a part of

- A. Respiratory system
- B. Digestive system
- C. Immune system
- D. Circulatory system

Answer: B



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605. Which one of the following features is common in silverfish, scorpion, dragonfly and prawn

- A. Three pairs of legs and segmented body
- B. Chitinous cuticle and two pairs of antennae
- C. Jointed appendages and chitinous exoskeleton
- D. Cephalothorax nad tracheae

Answer: C



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606. From the following statements select the wrong one

- A. Prawn has two pairs of antennae
- B. Nematocysts are characteristics of the phylum cnidaria
- C. Millepedes have two pairs of appendages in each segment of the body.
- D. Animals belonging to phylum porifera are exclusively marine.

Answer: A



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607. Which structure of man is similar to the spiracle of cockroach

A. Nostril

B. Bronchiole

C. Lungs

D. Alveoli

Answer: A



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608. How do you differentiate a butterfly from a moth

A. moth has feathery antennae but butterfly has club shaped antennae

B. Moth has one pair of wings but butterfly has two pairs of wings.

C. Moth is diurnal but butterfly is nocturnal

D. Moth has simple eyes but butterfly has compound eyes.

Answer: A



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609. Tubular heart of cockroach has how many chambers.

- A. 10
- B. 13
- C. 12
- D. 11

Answer: B



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610. Which one of the following animal belongs to class crustacea

- A. Cockroach
- B. Cyclops
- C. Grasshoper

D. Mosquito

Answer: B



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611. Which of the following statement is correct regarding cockroach

- A. Ventral nerve cord is present
- B. Spiracles help in excretion
- C. Phallomere is present in female cockroach
- D. Compound eye is also called as ocellus

Answer: A



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612. Mushroom gland is a part of

- A. Male reproductive system of cockroach
- B. Female reproductive system of cockroach
- C. Female reproductive system of rabbit
- D. Female reproductive system of rabbit

Answer: A

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613. What external changes are visible after the last moult of a cockroach nymph

- A. Labium develops
- B. Mandibles become harder
- C. Anal cerci develop
- D. Both fore wings with hind wings develop

Answer: D

614. Which one of the following is one of the paths followed by *air* / O_2 during respiration in an adult male *Periplaneta americana* as it enters the animal body.

- A. Spiracle in metathorax, trachea, tracheoles, oxygen diffuses into cells
- B. Mouth, bronchial tube, trachea, oxygen enters cells
- C. Spiracles in prothorax, tracheoles, trachea, oxygen diffuses into cells.
- D. Hypopharynx, mouth, pharynx, trachea, tissues.

Answer: A

615. See the following figure and identify A to E



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616. Match column I with column II for housefly classification and select the correct options using the codes given below.



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617. In male cockroaches, sperms are stored in which part of the reproductive system

A. vas deferens

B. Seminal vesicles

C. Mushroom glands

D. Testes

Answer: B



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618. Which of the following features is used to identify a male cockroach from a female cockroach

- A. Presence of a boat shaped sternum on the 9th abdominal segment
- B. Presence of caudal styles
- C. Forewings with darker tegmina
- D. Presence of anal cerci

Answer: B



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619. Which one of the following is not used in organic farmina

- A. Snail
- B. Glomus
- C. Earthworm
- D. oscillatoria

Answer: A



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620. The devil fish and sea hare are

- A. Molluscs
- B. Crustaceans
- C. Coelenterates
- D. Marine fish and mammal

Answer: A



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621. Which one of the following phyla is correctly matched with its two general characteristics

- A. Echinodermata- Pentamerous radial symmetry and mostly internal fertilization
- B. Mollusca-Normally oviparous and development through a trochophore or veliger larva
- C. Arthropoda-Body divided into head, thorax and abdomen and respiration by tracheae
- D. Chordata-Notochord at some stage and separate anal and urinary opening to the outside.

Answer: B





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622. Foot is displaced to the neighbourhood of mouth and divided into arms in

- A. Ostrea
- B. Pila
- C. Sepia
- D. Chiton

Answer: C



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623. Most mollusc are

- A. Terrestrial
- B. Fresh water

C. Marine

D. None of these

Answer: C



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624. The elephant tusk shell is

A. Dentalium

B. Nautilus

C. Limax

D. Octopus

Answer: A



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625. Cilia of gills of bivalve molluscs help in

- A. Feeding
- B. Digestion
- C. Reproduction
- D. Excretion

Answer: A



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626. Which among the following is not a class of phylum mollusca

- A. Gastropoda
- B. Trematoda
- C. Decapoda
- D. Both b and c

Answer: D



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627. Which one is not correctly matched

- A. Mollusca-Pseudocoel
- B. Cnidaria-Nematocyst
- C. Annelida-Chloragogen cells
- D. Echinodermata-Water vascular system

Answer: A



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628. Ospharidium is meant for

- A. Excretion

B. Nutrition

C. Selection and rejection of food

D. Grinding of food

Answer: C



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629. Which one belongs to the class of sea hare

Or Itbr Which of the following belongs to the class gastropoda

A. Sea cow

B. Sea squirt

C. Snail

D. Sepia

Answer: C



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630. Asymmetry in gastropoda is due to

- A. Torion
- B. Colling
- C. Twisting
- D. Abodomen

Answer: A



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631. The mollusc which is considered to be a living fossil and also shows characters of annelids like nephridia and internal segmentation is

- A. *Pinctada vulgaris*
- B. *Nutilus*
- C. *Neoplina galathea*

D. None of these

Answer: C



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632. Pila is the example of which class.

A. Gastropoda

B. Pelecypoda

C. Cephalopoda

D. Scaphopoda

Answer: A



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633. In which one of the following the genus name, its two characters and its phylum are not correctly matched. Whereas the remaining three are correct.

A. Genus Two characters Phylum
Pila Body Segmented Mollusca

B.

Genus Two characters Phylum
Asterioas Spiny Skinned, Water vascular system Echinodermata

C. Genus Two characters Phylum
Sycon Pore bearing, Canal system Porifera

D.

Genus Two characters Phylum
Periplaneta Jointed appendages, Chitinous exoskeleton Arthropod

Answer: A



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634. Vascular mass undergo torsion in

A. Gastropoda

B. Cephalopoda

C. Palacopoda

D. None of these

Answer: A



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635. Cephalopoda is a class of animals in which

A. Notochord extends upto head

B. Foot is located on head

C. Head is located on foot

D. Head is fused with thorax

Answer: B



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636. In mollusca, eye is present over a stalk called

- A. Ostracum
- B. Operculum
- C. Osphradium
- D. Ommatophores

Answer: D



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637. "Shell of mollusc is produced by its

- A. Radula
- B. Thorax
- C. Mantle
- D. Abdomen

Answer: C



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638. Which set is correct

- A. Euglene-cilla
- B. Parameclum-Flagella
- C. Snail-Foot
- D. Amoebe-Foot

Answer: C



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639. Which of the following is the oldest living fossil.

- A. Architeuthis

B. Neoplina

C. Nautilus

D. Limulus

Answer: B



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640. Which of the following is correct

A. Mollusca-bivalvia-pila

B. Annelida-hirudinea-silver fish

C. Mollusca-cephalopoda-octopus

D. Arthropoda-arachnida-grasshopper

Answer: C



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641. Phylum mollusca can be distinguished from other invertebrates by the presence of

- A. Bilateral symmetry and exoskeleton
- B. A mantle and gills
- C. Shell and non segmented body
- D. A mantle and non-segmented body

Answer: D



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642. As per classification which of the following is correct

- A. Ascaris, pheretima, grasshopper
- B. Hydra, Pterido, Leucosolenia
- C. Starfish, Grasshopper, Solen
- D. Pila, Dentalium, Octopus

Answer: D



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643. Mantle, foot and shell are the character of

Or

Which of the following is a living fossil

- A. Nautilus
- B. Echinus
- C. Limbulus
- D. Euplectella

Answer: A



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644. Match the columns and choose the correct combination



A. A-s,B-r,C-p,D-q

B. A-q,B-s,C-t,D-p

C. A-r,B-s,C-p,D-t

D. A-t,B-q,C-s,D-r

Answer: A



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645. Which of the following mollusc is formed by a larvae which have torsion

A. Lamelledens

B. Pila

C. Sepia

D. Octopus

Answer: B



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646. Cuttle fish is a member of

A. Mollusca

B. Echinodermata

C. Pisces

D. Amphibia

Answer: A



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647. A wood boring mollusca/Shipworm is

A. Chiton

B. Teredo

C. Limax

D. Patella

Answer: B



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648. Raduls is found in

A. Pila sp

B. Chiton sp

C. Lamelldens sp

D. Pinctada sp

Answer: A



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649. Haemocyanin, the blue coloring pigment of molluscan blood contains

- A. Iron
- B. Magnesium
- C. Copper
- D. Manganese

Answer: C



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650. Filter feeding occurs in

- A. Dentalium
- B. Unio
- C. Pila

D. Amoeba

Answer: B



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651. An animal without segmentation is

A. Tapeworm

B. Earthworm

C. Glow Worm

D. Shipworm

Answer: D



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652. Closed circulatory system occurs in

- A. Snail
- B. Cockroach
- C. Cuttle fish
- D. All the above

Answer: C

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653. Pila shows summer

- A. Hibernation
- B. Aestivation
- C. Emigration
- D. Immigration

Answer: B

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654. Octopus, Squid and Cuttle Fish belong to class.

A. Cephalopoda

B. Apoda

C. Decapoda

D. Scaphopoda

Answer: A



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655. Which one occurs in mollouscs but not in echinoderms

A. Flame cells

B. Malpighian tubbules

C. Kidney

D. None of the above

Answer: C



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656. In which of the following group of animals the trochophore larva becomes the veliger larva

A. Mollusca

B. Arthropoda

C. Annelida

D. Platyhelminthes

Answer: A



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657. Shell is internal in

- A. Loligo
- B. Chiton sp
- C. Dentalium
- D. Unio

Answer: A



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658. Sepia and Octopus swim swiftly by means of

- A. Arms
- B. Lateral fins
- C. Suckers
- D. Jet propulsion through siphon

Answer: D



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659. Ammonites fossil shell remains of

- A. Pweleycpoda
- B. Cephalopods
- C. Gastropoda
- D. Scaphopods

Answer: B



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660. Scaphopode are commonly called.

- A. Whelks

B. Pertiwnkles

C. Oysters

D. Tusik shells

Answer: D



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661. Aristotle's lantern is found in

A. Jelly fish

B. Sea anemone

C. Sea lily

D. Sea urchin

Answer: D



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662. Secondary radial symmetry is found in

- A. Cnidaria
- B. Jelly fish
- C. Echinodermata
- D. Hemichordata

Answer: C



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663. Which trait is not the characteristic of echinodermata

- A. Water vascular system
- B. Trochophore larva
- C. Aristotle's lantern
- D. Radial and indeterminate cleavage

Answer: B



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664. Main function of pedicellariae in *Asterias* is

- A. Digestion
- B. Excretion
- C. Respiration
- D. Capture of prey and removal of debris

Answer: D



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665. Sea lilies are the members of class

- A. Ophiuroidea

B. Asteroidea

C. Crinoidea

D. Echinodea

Answer: C



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666. In Ophiuroida, branched arms are seen in

A. Gorgonocephalus

B. Clypeaster

C. Salmacis

D. Gorgania

Answer: A



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667. The presence of tube feet is the characteristic feature of phylum

- A. Arthropoda
- B. Annelida-hirudinea-silver fish
- C. Nematheminites
- D. Exhinodermata

Answer: D



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668. In which phylum is water vascular system found

- A. Protozoa
- B. Arthropoda
- C. Porifera
- D. Echinodermata (Sea-cucumber)

Answer: D



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669. Starfish belongs to class

- A. Pisces
- B. Cephalopoda
- C. Asteroidea
- D. Ophiuroidea

Answer: C



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670. Ambulacral grooves are absent in the living forms of the class

- A. Crinoidea

B. Ophiuroidea

C. Asteroidea

D. Echinodermata

Answer: B



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671. Aristotle's lantern is a characteristic of the following class of echinodermata

A. Echinoidea

B. Ophiuroidea

C. Holothuroidea

D. Asteroidea

Answer: A



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672. A special feature of Eviscretion (Autoformy) is found in

- A. Chordata
- B. Echinodermata
- C. Annelida
- D. Coelentrata

Answer: B



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673. Enterocoelic type of coelom is present in the

- A. Echinodermata
- B. Mollusca
- C. Arthropoda
- D. Chordata

Answer: A



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674. Animals of which group are not fresh water

- A. Crustacea
- B. Insects
- C. Echinodermata
- D. Sponge

Answer: C



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675. Which phylum belongs to Duterostomia

- A. Echinodermata

B. Mollusca

C. Arthropoda

D. Annelida

Answer: A



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676. An animal that ransforms from bilateral to radial symmetry in its life history is

A. Hydra

B. Obelia

C. Starfish,Grasshopper,Solen

D. Sponge

Answer: C



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677. Absence of excretory organs, great power of regeneration and exclusively marine animals belong to the phylum

- A. Mollusca
- B. Echinodermata
- C. Fishes
- D. Arthropoda

Answer: B



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678. The pentaradial symmetry is seen in

- A. Echinodermata
- B. Arthropoda
- C. Mollusca

D. Annelida

Answer: A



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679. Mark the correct one

- | | | | |
|----|---------------|---------------|-------------|
| | Phylum | Class | Example |
| A. | Annelida | Oligochaeta | Nereis |
| | Phylum | Class | Example |
| B. | Mollusca | Pelecypoda | Cuttle fish |
| | Phylum | Class | Example |
| C. | Reptilia | Ophidia | Lizard |
| | Phylum | Class | Example |
| D. | Echinodermata | Holothruoidea | Cucumaria |

Answer: D



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680. Which one of the following pairs of animals is correctly matched with the kind of their body symmetry.

- A. Hydra and shark-Bilateral symmetry
- B. Tapeworm and octopus-Radial symmetry
- C. Amoeba and sea urchin-Asymmetry
- D. Jellyfish and starfish-Radial symmetry

Answer: D



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681. Absence of head, unsegmented body and endoskeleton of dermal calcareous plate are the characters of

- A. Mollusca
- B. Arthropoda
- C. Echinodermata

D. None of these

Answer: C



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682. An animal phylum having radially symmetrical adults but bilateral symmetrical larvae is

A. Porifera

B. Coelenterata

C. Echinodermata

D. Annelida

Answer: C



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683. Cephalization is absent in

- A. Molluscs
- B. Arthropods
- C. Both a and b
- D. Echinoderms

Answer: D



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684. Which is unrelated

- A. Sea Cucumber
- B. Sea Star
- C. Sea Urchin
- D. Sea Squid

Answer: D



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685. Echinodermata is a group of animals which are

- A. Coelomate, horny, marine
- B. Coelomate, spiny, marine
- C. Acoelomate, spiny, fresh water
- D. Joint, feegged, marine

Answer: B



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686. Aristotle's lantern is connected with

- A. Respiration

B. Mastication

C. Excretion

D. Support

Answer: B



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687. Echinoderms are headless, brainless and hearless, Yet they are placed at the top of invertebrates because of presence of

A. Enterocoel

B. Exclusive marine forms

C. High power of regeneration

D. Great power of reproduction

Answer: A



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688. Tube feet are the characteristic structures of

- A. Jellyfish
- B. Cuttlefish
- C. Starfish(Echinodermata)
- D. Crayfish

Answer: C



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689. Match the animals list with names under Column-I with the animals listed with regular zoological name given under Column-II choose the answer which gives the correct combination of the alphabets of the two columns



A. $A=r, B=s, C=p, D=q$

B. $A=r, B=p, C=s, D=q$

C. $A=q, B=4, C=s, D=p$

D. $A=q, B=p, C=s, D=r$

Answer: C



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690. Antedon belongs to the class

A. Crinoidea

B. Asteroidea

C. Ophiruroidea

D. Echinoidea

Answer: A



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691. Basket star belongs to class

- A. Ophiuroidea
- B. Echinoidea
- C. Asteroidea
- D. Crinoidea

Answer: A



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692. Box like calcareous test occurs in

- A. Sea Lily
- B. Sea Star
- C. Sand Dollar

D. Sea Cucumber

Answer: C



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693. In which class of echinodermata stalk is found for attachment with substratum

- A. Asteroidea
- B. Echinoidea
- C. Ophiuroidea
- D. Crinoldea

Answer: D



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694. Bipinnaria is the larva of

- A. Pila
- B. Lemelldens
- C. Sepia
- D. Star fish (Asteroidea)

Answer: D



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695. Which one of the following statement is true about an organism and its classification.

- A. Blue green alga is kind of fungus
- B. Sea horse is closely related to duophin
- C. Maiden hair tree is a kind of angiosperm
- D. Sea lily is a kind of echninoderm

Answer: D



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696. In echinodermata, tube feet are related with

- A. Excretory system
- B. Ambulacral system
- C. Reproductive system
- D. Respiratory system

Answer: B



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697. Which one of the following pairs of animals comprises "Jawless fishes"

- A. Lampreys and eels
- B. Machkerals and Rohu
- C. Lampreys and hag fishes
- D. Fuppies and has fishes

Answer: C

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698. The number of gils present in Osteichtyes is

- A. 2 pairs
- B. 6-15pairs
- C. 5 pairs
- D. 4 pairs

Answer: D

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699. At retrogressive metamorphosis the urochordate larva

- A. Loss notochord
- B. Loss tail
- C. Experience reduction of nervous system to a visceral ganglion
- D. All of the above

Answer: D



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700. Animals belonging to phylum chordata are fundamentally characterized by the presence of structure noted as A,B,C and D. identify the names of A,B,C and d



A. A-Nerve cord, B-Gill slits, C-Notochord, D-Post-anal part

B. A-Nerve cord, B-Notochord, C-post anal part, D-Gill slits

C. A-Nerve cord, B-Notochord, C-Gill slits, D-post-anal part

D. A-Notochord, B-Nerve Cord, C-Gill Slits, D-Post anal part

Answer: C



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701. In which of the following jaws are found

A. Herdmania

B. Fish

C. Petromyzon

D. Amphisouxs

Answer: B



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702. Temperature changes in the environment affect most of the animals which are

- A. Aquatic
- B. Desert living
- C. Polkilothermic
- D. Homolothermic

Answer: C



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703. The animal who possess notochord throughout life is

Or

Which of the following animals is not a vertebrate

- A. Fish
- B. Amphioxus

C. Bird

D. Snake

Answer: B



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704. Which of the following statements is/are not true

A. In Urochordata, notochord is present only in larval tail.

B. In Cephalochordata, notochord extends from head to tail region.

C. Branchiosoma belongs to Hemichordata

D. Only one Class of living members, Class Cyclostomata represents the Super Class Agnatha.

A. A,B and D only

B. C,D and A only

C. C only

D. A and D only

Answer: C



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705. Blood vascular system in hmichordata is

- A. Open
- B. Reduced
- C. Closed
- D. Absent

Answer: A



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706. The most important disitinctive character of chordta is the presence of

A. Vertebral column

B. Hairy skin

C. Notochord

D. All the above

Answer: C

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707. Retrogressive metamorphosis is found in

A. Balanoglossus

B. Branchiostoma

C. Herdmania (Urochordata)

D. All of these

Answer: C

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708. The lamprey (*Petromyzon*) is included in the same taxonomic class as the

- A. Salamander (*Ambystoma*)
- B. Hag fish (*Myxine*)
- C. Salamander (*Ambystoma*)
- D. Lung fish (*Neoceratodus*)

Answer: B



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709. The portal system seen in all vertebrates is

- A. Hepatic
- B. Renal
- C. Both a and b

D. Pulmonary

Answer: A



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710. Which one of the following is not a characteristic feature of the subphylum vertebrates

- A. Dorsal tubular nerve cord
- B. Ventral muscular heart
- C. Presence of notochord in the adult
- D. Presence of kidneys

Answer: C



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711. Notochord is restricted to the anterior part of body probocis in animlas of which group

- A. Hemichordata
- B. Urochordata
- C. Cephalochordta
- D. Chordata

Answer: A



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712. Animals having a bulb-in thermostat to maintain constnat body temperature are known as

- A. Biothermic
- B. Polkiothermic
- C. Oligothermic

D. Homoeothermic

Answer: D



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713. Which of the following groups has no member having gliding or flying appedages

A. Arthropoda

B. Cyclositomata

C. Mammals

D. Fishes

Answer: B



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714. In some chordates, the notochord is modified as the vertebral column. Such animals are called vertebrates which one of the following statements make sense.

- A. All chordates are vertebrates but all vertebrates are not chordates
- B. All vertebrates are chordates and all chordates are vertebrates
- C. All vertebrates are chordates but all chordates are not vertebrates
- D. Chordates are not vertebrates and vertebrates are not chordates.

Answer: C



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715. Petromyzon belongs to

- A. Agnatha
- B. Gnathostomata
- C. Protochordata

D. Euchordata

Answer: A



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716. The echinoderms, hemichordates and chordates had which of the following larva as common ancestral form

A. Tomaria

B. Trochophore larva

C. Dipleurula

D. Bipinnaria.

Answer: C



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717. Which among the following is the onl vertebrate osmoconformer

- A. Rabbit
- B. Hagfish
- C. Bird
- D. None of these

Answer: B



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718. Which one of the following feature is found in chordates but not in non-chordates

- A. Gills
- B. Spiracles
- C. Post anal tail
- D. Chitinous exoskeleton

Answer: C



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719. Which of the following show relationship of echnoderms and chordats

- A. Balanoglossus
- B. Archaeopteryx.
- C. Perpatus
- D. None of these

Answer: A



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720. Crocodile and penguin are similar to whale and Dogfish in which one of the following features

- A. Possess a solid single stranded central nervous system
- B. Petromyzon and myxine
- C. Possess bony skeleton
- D. Have gill slits at some stage

Answer: D

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721. Which of the following sets of animals belong to class cyclostomasis

- A. Herdmania and petromyzon
- B. Petromyzon and myxine
- C. Amphioxus and balanoglossus
- D. Herdmania and myxine

Answer: B

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722. The jawless vertebrate is

Or

A jawless fish, which lays eggs in fresh water and whose ammocoetes larva after metamorphosis return to the ocean is

A. Crocodile

B. Loris

C. Hyla

D. Fox

Answer: D



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723. Herdmania belongs to which subphyla

A. Cephalochordata

B. Hemichordata

C. Urochordata

D. Protochordata

Answer: C



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724. All chordates at one or the other stage possess

A. vertebral column

B. pharyngeal gills - slits

C. two pairs of pentadactyl limb

D. a movable jaw

Answer: B



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725. which one feature is common to Amphioxus , frog sea horse and crocodile

- A. pharyngeal gill slits at least in the developmental stages
- B. A three - chambered heart
- C. dorsal solid nerve chord
- D. skeleton formed fo cartilage and bones

Answer: A



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726. Larva of balanoglossus is

- A. tornaria
- B. muller's larva
- C. kentrogon larva
- D. tadpole

Answer: A



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727. which of the following is a distinct character

- A. chorda dorsalis
- B. cephalization
- C. claws
- D. pharyngotomy

Answer: A



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728. vertebral column is derived from

- A. notochord

B. dorsal nerve code

C. ventral nerve cord

D. outgrowth of cranium

Answer: A



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729. match items in column I with those give in column II



A. A-I B-II ,C-III , D -IV , E- V

B. A - II , B-I , C - III , D - IV , E -V

C. A-III , B-I , C-II , D-IV , E- V

D. A - V , B- II , C-III , D- IV , E - I

Answer: C



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730. common characteristic of all vertebrates without exception is

- A. Exoskeleton
- B. presence of well developed skull
- C. two pairs of functional appendages
- D. division of body into head, neck, trunk and tail

Answer: B



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731. which of the following is the smallest taxonomic group of animals having a cranium , vertebral column , ventral heart , pulmonary respiration and two pairs of limbs

- A. Gnathostomata
- B. tetrapoda

C. vertebrata

D. chordata

Answer: B



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732. the vertebrate does not have

A. epidermal scale

B. claw

C. tail

D. cidoblast

Answer: D



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733. Ancestors of cyclostomes are

- A. myxinoidea
- B. arthropods
- C. ostracoderm
- D. urochordates

Answer: C



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734. see the following diagram and identify the name of the animal and the phylum to which it belongs correctly



- A. nereis , Annelida
- B. Balanoglossus , urochordata
- C. Balanoglossus , cephalochordata

D. balanoglossus, hemichordata

Answer: D



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735. birds and mammals have

- A. three chambered heart
- B. four chambered heart
- C. six chambered heart
- D. none of the above

Answer: B



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736. homeothermic animals is

A. toad

B. lizard

C. Rabbit

D. frog

Answer: C



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737. which if the following are anamiotes

A. chondrichthyes , osteichthyes, Amphibia

B. reptital aves, amphibia

C. amphibia , aves , mammals

D. reptilia mammals aves

Answer: A



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738. in urochordata notochord is found in

- A. head of adult
- B. tail of adult
- C. tail of larva
- D. test of adult

Answer: C



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739. in which of the following notochord is absent

- A. adult herdmania and balanolossus
- B. adult herdmania and adult branchiotoma
- C. larva of herdmania and branchiostoma

D. larva of hermania and balanoglossus

Answer: A

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740. the correct classification of balanoglossus is

A. chordata → vertevbrata → enteropneusta

B. chordata → vertebrata → petrobranchia

C. chordata → hemichordata → pterobranchia

D. chordta → hemichordata → enteropneusta

Answer: D

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741. in which of the following the notochord is present in embryonic stage

- A. vertebrates
- B. some chordates
- C. all chordates
- D. no chordates

Answer: C



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742. which of the following is not a character of chordata

- A. dorsal tubular nerve cord
- B. pharyngeal gill slites
- C. presence of notochord
- D. presence of spinal cord

Answer: D



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743. which animal is " non chordte - protochordata "

OR

which of the following is a hermichordate

A. hardmania

B. balanoglossus

C. branchiostoma

D. botryllus

Answer: B



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744. mode of feeding in tunicates is

- A. parasitic
- B. macrophagus
- C. ciliary filterer
- D. myxotrophic

Answer: C

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745. which one of the following statements is totally wrong about the occurrence of notochord , while the other three are correct

- A. it is absent throughout life in humans from the very beginning
- B. it is present throughout life in Amphioxus
- C. it is present only in larval tail in Ascidians
- D. it is replaced by a vertebral column in adult frog

Answer: A

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746. match the following and select the correct option



A. A-1,B-2,C-3,D-4,E-5

B. A-2,B-3,C-4,D-1,E-5

C. A-3,B-5,C-2,D-1,E-4

D. A-3,B-1,C-5 , D-2 , E-4

Answer: C

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747. echidna and ornithorhtnchus are the connecting links between

A. amphibians and aves

B. mammals and amphibians

C. reptiles and mammals

D. reptilia and amphibians

Answer: C



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748. column 1 contains larvbal stages and column - II conations the groups to which they belong . Match them correctly and choose the right answer



A. A-6 ,B-4,C-1 ,D-5 , E-2

B. A-2 ,B-5 , C-1 , D-4 , E-6

C. A-5 , B-4 ,C-3 ,D-2 , E-1

D. A-4 , B- 3, C-2 , D-1 , E-5

Answer: A



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749. stomochord is found in

- A. urochordata
- B. hermichodata
- C. cephalochordata
- D. both (a) and (b)

Answer: B



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750. match the name of the animal (colume I) with one charcteristics (column II) , and the phylun / class (column III) to which it belongs

Column I	Column II	Column III
(1) Limulus	body covered by chitinous exoskeleton	Pisces
(2) Adamsia	radially symmetrical	Porifera
(3) Petromyzon	ectoparasite	Cyclostomata
(4) Ichthyophis	terrestrial	Reptilia



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751. lateral line system is present in

- A. fish
- B. frog
- C. reptiles
- D. man

Answer: A



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752. Which one of the following is a cartilaginous fish

A. Silver fish

B. dog fish

C. cray fish

D. Star fish

Answer: B



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753. Which of the following has a cartilagenous endoskelton

A. elasmobranch

B. dipnoi

C. mollusca

D. bony fishes

Answer: A



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754. electric organs are found in

A. Sharks

B. porpoises

C. goldfish

D. rays(torpedo)

Answer: D



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755. A fish is characterised by the presence of

- A. dermal scales
- B. paired fins
- C. pharyngeal gills
- D. all the above

Answer: D

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756. Which one of the following is an example of a lung fish

- A. Scoliodon
- B. Coelacanth
- C. Labeo
- D. Protopterus

Answer: D

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757. Which one of the following is exotic Indian fish

- A. Clarias
- B. Labeo
- C. Cypris
- D. Dephnia

Answer: A



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758. Which of the following represents the correct combination without any exception

Characteristics

- (a) Mouth ventral, gills without operculum, skin with placoid scales, per
- (b) Sucking and circular mouth, jaws absent, integument without scales,
- (c) Body covered with feather, skin moist and glandular, fore-limbs form
- (d) Mammary gland, hair on body, pinnae, two pair of limbs



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759. In sharks, one of the following is absent

- A. Claspers
- B. Placoid scales
- C. Cartilaginous endoskeleton
- D. Air bladder

Answer: D



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760. Which of the following fish injures its prey

- A. Clarius
- B. Gambusia
- C. Heteropneustes

D. Solea

Answer: C



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761. Which of the following animals is a fish

A. Shark

B. Star fish

C. Silver fish

D. Jelly fish

Answer: A



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762. Pristis belongs to the class

- A. Dipnoi
- B. Tenostomi
- C. Elasmobranchii
- D. Holocephali

Answer: C

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763. Bony plates and scutes are found in addition to scales in

- A. Hag fish
- B. Eel
- C. Flying fish
- D. Sea horse

Answer: D

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764. Which one of the following pairs of animals are similar to each other pertaining to the feature stated against them

- A. Pteropus and Ornithorhyncus-Viviparity
- B. Garden lizard and Crocodile-Three chambered heart
- C. Ascaris and Ancylostoma-Metameric segmentation
- D. Sea horse and Flying fish-Cold blooded (poikilothermal)

Answer: D



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765. Ampullae of Lorenzini are present in

- A. fish
- B. Lizard
- C. Frog

D. Rabbit

Answer: A



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766. True fishes possess gills and fins. Which of the following not a true fish

- A. Silver fish (Lepisma)
- B. Gold fish (Carassius)
- C. Silver carp (Hythalamictyes)
- D. Sea horse (Hippocampus)

Answer: A



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767. Which of following is a true fish

- A. Dog fish
- B. Cat fish
- C. Both (a) and (b)
- D. Whale

Answer: C



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768. Which of the following is a viviparous fish

- A. Exocoelotus
- B. Gambusia
- C. Clarias
- D. Labeo

Answer: B



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769. Heart of fishes is

- A. One chambered
- B. Two chambered
- C. Three chambered
- D. Four chambered

Answer: B



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770. Hippocampus (Sea Horse) belong to the class

- A. Agnatha

B. Chondrichthyes

C. Osteichthyes

D. Mammalia

Answer: C



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771. Fishes are

A. Homoiothermic

B. Poikilothermic

C. Both (a) and (b)

D. None of these

Answer: B



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772. Which of the following is characteristic feature of fishes.

- A. Tail and venous heart
- B. Venous heart and gills
- C. Epidermal scales and tail
- D. Epidermal scales and gills

Answer: B



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773. Sea horse is

- A. fish
- B. Reptile
- C. Mamimal
- D. Bird

Answer: A



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774. Placoid scales are found in

- A. Reptiles
- B. Bony fishes
- C. Cartilaginous fishes
- D. Amphibians

Answer: C



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775. Swim bladder is present in

- A. Scolidom

B. Labeo

C. Chimaera

D. Trygon

Answer: B



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776. Connecting link between cartilaginous and bony fishes is

A. Catla

B. Chimaera

C. Protopterus

D. Torpedo

Answer: B



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777. With respect to mode of excretion, which type of organism bony fishes are

- A. Osmoconformers
- B. Ammonotelic
- C. Uricotelic
- D. Uriotelic

Answer: B



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778. Which fins are paired in fishes

- A. Dorsal fin and anal fin
- B. Pelvic fin and ventral fin
- C. Pectoral fin and pelvic fin
- D. Caudal fin and dorsal fin

Answer: C



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779. Salmon is

- A. Anadromous fish
- B. Catadromous fish
- C. Mollusca
- D. Insect

Answer: A



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780. Choose the cat fish from the following

- A. *Cirrhina mrigala*

B. Wallago attu

C. Labeo rohita

D. Catla catla

Answer: B



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781. At present, the Dipnoans are distributed over

A. Europe and North America

B. Latin America and Australia

C. Europe and Latin America

D. North America and Australia

Answer: B



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782. One of the world's most poisonous fish toxins is released by

- A. Clown fish
- B. Sword fish
- C. Eel fish
- D. Puffer fish

Answer: D



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783. Hemicyclaspsis belongs to the class

- A. Pisces
- B. Ostracodermi
- C. Cyclostomata
- D. Cnathostomata

Answer: B



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784. Association between suckerfish (Remora) and shark is

- A. Symbiosis
- B. Commensalism
- C. Parasitism
- D. Predation

Answer: B



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785. Which one is a true fish

- A. Whale

B. Cuttlefish

C. Silverfish

D. Flying fish

Answer: D



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786. Anadromous fishes move

A. From sea to freshwater

B. From sea to estuary

C. From river to sea

D. From estuary to sea

Answer: A



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787. Cartilaginous fishes do not have

- A. Operculum
- B. Scales
- C. Gill stits
- D. Pelvic fins

Answer: A



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788. Which is viviparous

- A. Bony fish
- B. Lung fish
- C. Frog
- D. Shark

Answer: D



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789. Common name of fish *Anguilla* is

- A. Eel
- B. Rohu
- C. Hilsa
- D. Bombay duck

Answer: A



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790. In fishes the kidney is

- A. Pronephros

B. Mesonephros

C. Metanephros

D. Holonephros

Answer: B



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791. In one of the following fishes, the dorsal fin is modified into suckers

A. Torpedo

B. Echeneis

C. Hippocampus

D. Neoceratodus

Answer: B



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792. Presence of claspers is an important character in

- A. Sphyrna
- B. Echeneis
- C. Hippocampus
- D. Exocoetus

Answer: A



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793. Freshwater bony fishes maintain water balance by

- A. Excreting hypotonic urine
- B. Excreting salt across their gills
- C. Drinking small amount of water
- D. Excreting waste in the form of uric acid

Answer: A



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794. Salmon belongs to the group of

- A. Bony fishes
- B. Cartilaginous fishes
- C. Cod fishes
- D. Trout fishes

Answer: D



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795. One of the following is known as 'oil sardine'

- A. *Atropus surtensis*

B. Harpodon reherius

C. Sardinella longiceps

D. Rastrelliger kanegunta

Answer: C



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796. Which of the following is a migratory fish

A. Shark

B. Salmon

C. Carp

D. Ribbon fish

Answer: B



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797. Similarity between fish and tadpole is

- A. Legs
- B. Fins
- C. Lateral line
- D. Scales

Answer: C



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798. Which of the following is known as living fossil

- A. Lepidosiren
- B. Lepidosteus
- C. Latimeria
- D. Neoceratodus

Answer: C



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799. The aquatic organism with prehensile tail is

- A. Macaca
- B. Chameleon
- C. Exocoetus
- D. Hippocampus

Answer: D



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800. Cartilaginous fishes belong to the class

- A. Chondrichthyes

B. Osteichthyes

C. Agnatha

D. None of these

Answer: A



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801. Which of the following is a catadromous fish

A. Hilsa sp

B. Mystus sp

C. Anguilla sp

D. Channa sp

Answer: C



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802. The diagram of labeo rohita is given below. Identify the parts labelled

A, B, C, D, E, F, G



A.

<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>	<i>E</i>	<i>F</i>	<i>G</i>
Stimulus	Receptor	Sensory nerve	Motor nerve	Effector	Pectoral fin	Pelvic fin

B.

<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>	<i>E</i>	<i>F</i>	<i>G</i>
Nostril	Eye	Anal fin	Caudal fin	Dorsal fin	Pectoral fin	Pelvic fin

C.

<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>	<i>E</i>	<i>F</i>	<i>G</i>
Nostril	Eye	Dorsal fin	Caudal fin	Anal fin	Pelvic fin	Pectoral

D.

<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>	<i>E</i>	<i>F</i>	<i>G</i>
Nostril	Eye	Dorsal fin	Caudal fin	Pectoral fin	Anal fin	Pelvic

Answer: C



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803. Which one of the following groups of animals is correctly matched with its one characteristic feature without even a single exception

- A. Mammalia: give birth to young ones
- B. Reptilia: Possess 3-chambered heart with one incompletely divided ventricle
- C. Chordata: Possess a mouth provided with an upper and a lower jaw
- D. Chondrichthyes: Possess cartilaginous endoskeleton

Answer: D



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804. What will you look for to identify the sex of the following

- A. Male shark- Claspers borne on pelvic fins
- B. Female Ascaris- Sharply curved posterior end
- C. Male frog-A copulatory pad on the first digit of the hind limb

D. Female frog- Anal cerci

Answer: A



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805. Scientific name of rohu is

A. Anabas testudineus

B. Catla catla

C. Labeo rohita

D. Naja naja

Answer: C



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806. Air bladder is present in

A. Chondrichthyes

B. Star fishes

C. Actinopterygii

D. Flying fishes

Answer: C



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807. Jaw of shark contains

A. Thecodont teeth

B. Acrodont teeth

C. Pleurodont teeth

D. None of these

Answer: B



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808. See the following figures and click the correct option with their respective classes



A. A- Osteichthyes, B- Chondrichthyes, C- Cyclostomata

B. A- Osteichthyes B- Chandrichthyes, C- Osteichthyes

C. A- Osteichthyes, B- Chondrichthyes, C- Chondrichthyes

D. A- Cyclostomata, B- Chondrichthyes, C- Chondrichthyes

Answer: D



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809. See the following figures and select the right option with their respective classes



A. A- Cartilage fish B- Hag fish

B. A- cartilage fish B- Cartilage fish

C. A- Bony fish, B- Cartilage fish

D. A- Bony fish, B- Bony fish

Answer: D

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810. The marin fish among the following varieties is

A. Stromateus

B. Labeo

C. Cirrhina

D. Catla

Answer: A

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811. Among the following edible fishes which one is marine fish having rich source of omega-3 fatty acids

A. Mackerel

B. Mystus

C. Mangur

D. Mrigala

Answer: A



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812. Choose the correct statement

A. All pisces have gills covered by an operculum

B. All mammals are viviparous

C. All cyclostomes do not possess jaws and paired fins

D. All reptiles have a three - chambered heart

Answer: C



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813. The pair of Amphibians found in Indian peninsula is

- A. Amphiuma and Anguis
- B. Tylotriton and Ichthyophis
- C. Hyla and Ambystoma
- D. Psittacus and Apteryx

Answer: B



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814. Ovoviviparity is seen in this caecilian

- A. Wuchereria
- B. Typhlonectus
- C. Ichthyophis
- D. Uraeotyplus

Answer: B

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815. Select the correct order of classification of *Rana tigrina* upto genus

- A. Chordata, craniata, amphibia, gnathostomata, rana
- B. Chordata, craniata, gnathostomata, amphibia, rana
- C. Chordata, craniata, gnathostomata, craniata, tigrina
- D. Gnathostoma, craniata, Chordata, rana, tigrina

Answer: B

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816. Which one of the following is not a true amphibian animal

A. Frog

B. Tortoise

C. Salamander

D. Toad

Answer: B



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817. The common name of necturus is

A. Cave salamander

B. Congo eel

C. Hell bender

D. Mud puppy

Answer: D



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818. Salamander belongs to the class

A. Reptilia

B. Amphibia

C. Aves

D. Mammalia

Answer: B



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819. Identify the names of the following animals with their respective classes from the given options



A. A- Salamadra, Urochordata, B- Chelone Cephalochordata, C- Chameleon Hemichordata

B. A- Salamandra Amphibia B- chelone Amphibia C-Chamleon, Amphibia

C. A- Salamandra, Reptilla, B- Chelone Reptilia, C- Chameleon Reptilia

D. A- Salamandra Amphibia, B- Chelone, Reptilla, C- Chameleon Reptilia

Answer: D



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820. Ichthyophis belongs to

A. Mammalia

B. Reptilia

C. Amphibia

D. Aves

Answer: C



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821. Capacity of amphibians to change colour is called

A. Metachrosis

B. Metachronous

C. Synchronous

D. None of these

Answer: A



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822. The name of flying frog is

A. Rhacophorus

B. Bufo

C. Phyllobates

D. Necturus

Answer: A



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823. Frog which lives on the trees

A. Alytes

B. Bufo

C. Hyla

D. Rana

Answer: C



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824. The functional kidney of frog tadpole is

- A. Pronephros
- B. Mesonephros
- C. Metanephros
- D. Archinephros

Answer: A



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825. Axolotl larva of *Ambystoma* normally fails to metamorphose due to

- A. Lack of Ca and Mg ions in water

- B. Absence of phosphorus in water
- C. Lack of iodine in water or diet
- D. High concentration of iodine in body

Answer: C

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826. Which of the following is a limbless amphibian

- A. Salamandar
- B. Ichthyophis
- C. Amphioxus
- D. Balanoglossus

Answer: B

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827. Limbless amphibians belong to the order

- A. Anura
- B. Urodela
- C. Gymnophiona
- D. Squamata

Answer: C



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828. Which animal is surinam toad

- A. Pipa
- B. Bufo
- C. Bombinator
- D. Alytes

Answer: A



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829. Casecilians belong to the order

- A. Sirenia
- B. Squamata
- C. Neognathae
- D. Gymnophiona

Answer: D



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830. Fire- belied toad is

- A. Amphiuma

B. Necturus

C. Salamandra

D. Bombinator

Answer: D



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831. Neoteny is found in

A. Tadpole

B. Salamander

C. Hyla

D. Axolotl

Answer: D



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832. The skull of frog is

- A. Tricondylic
- B. Monocondylic
- C. Dicondylic
- D. Noncondylic

Answer: C



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833. *Rana Tigrinum* is the zoological name of

- A. Frog
- B. Garden lizard
- C. Tiger
- D. Krait

Answer: A



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834. Common indian bull frog is

- A. *Rana tigrina*
- B. *Rana esculenta*
- C. *Rana silvatica*
- D. *Rana cyanophlystis*

Answer: A



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835. Retention of larval characters even after sexual maturity is called

- A. Ontogenesis

B. Parthenogenesis

C. Neoteny

D. Phyllogenesis

Answer: C



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836. Axolotl larva belongs to the order

A. Urodela

B. Anura

C. Apoda

D. Stegocephalia

Answer: A



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837. Frog is

- A. Aminotellic
- B. Ammonotelic
- C. Ureotelic
- D. Uricotellic

Answer: C



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838. Classification of reptilia is based on

- A. Scales
- B. Type of brain
- C. Vaccuties
- D. None of these

Answer: C



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839. Typhlop is a

- A. True snake
- B. False snake
- C. True worm
- D. Shark

Answer: A



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840. Only poisonous lizard of the world is

- A. Draco

B. Heloderma

C. Sphenodon

D. Varanus

Answer: B



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841. Venom of which of the following snakes is proteolytic

A. Viper

B. Krait

C. Cobra

D. Ajar

Answer: A



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842. Which of the following is primarily an ectotherm

- A. Pigeon
- B. Camel
- C. Lizard
- D. Rabbit

Answer: C



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843. Egg of reptiles and birds are

- A. Mesolecithal
- B. Telolecithal
- C. Polylecithal
- D. Alecithal

Answer: C



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844. Members of class Reptilia are

- A. Homoiothermic and amniotic
- B. Homoiothermic and anamniotic
- C. Poikilothermic and amniotic
- D. Poikilothermic and anamniotic

Answer: C



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845. Zoological name of common indian Krait is

- A. Bungarus coeruleus

B. *Ophiopagus hannah*

C. *Viper russeli*

D. *Naja naja*

Answer: A



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846. Carapace is present in

A. Toad

B. Bird

C. Frog

D. Tortoise

Answer: D



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847. Which is a poisonous snake

- A. Enhydrina
- B. Typhlops
- C. Python
- D. Eryx

Answer: A



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848. The important character of cobra is

- A. Presence of hood
- B. Small scales on head
- C. Rounded tail
- D. None of these

Answer: A



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849. Animals have the innate ability to escape from predation. Examples for the same are given below. Select the incorrect example.

- A. Colour change in chameleon
- B. Enlargement of body size by swallowing air in puffer fish
- C. Poison fangs in snakes
- D. Melanism in moths

Answer: C



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850. Poison glands of snake are modified

- A. Sebaceous glands
- B. Ceruminous glands
- C. Salivary glands
- D. Endocrine glands

Answer: C

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851. Snakes receive sound vibrations by

- A. Tympanum
- B. Body
- C. Internal ear
- D. Earth

Answer: B

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852. To which of the following category dinosaurs belong

- A. Reptiles
- B. Amphibians
- C. Mammals
- D. Birds

Answer: A



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853. Whose skin colour does not change

- A. Chameleon
- B. Horse
- C. Garden lizard

D. Two of the above

Answer: B



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854. Which of the following feature is not common between Newt & Hemidactylus

- A. Body is divisible into head, neck, trunk and tail
- B. Head with pair of eyes and tympanic membrane
- C. Trunk has 2 pairs of limb for locomotion
- D. Heart is 3- chambered

Answer: A



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855. Which type of respiratory organs are present in spiders and scorpions

- A. Book lungs
- B. Gills
- C. Gill books
- D. Lungs

Answer: A



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856. Which one of the following is a matching pair of an animal and it's a one of the characteristics

- A. Chamaelon- binocular vision
- B. Heloderma- poison gland
- C. Varanus- prehensile tail

D. House lizard-4 chambered heart

Answer: B



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857. Some reptiles show autotomy which means

- A. Voluntary breaking tail to confuse enemy
- B. Signal for charging
- C. Signal for courtship
- D. State of starvation prior to death

Answer: A



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858. Which among these is not a homoiotherm

A. Aptenodytes

B. Testudo

C. Delphinus

D. Neophron

Answer: B



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859. The truly land animals are

A. Newts

B. Lung-fishes

C. Salamanders

D. Calotes

Answer: D



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860. The injection of serum of horse which has been repeatedly injected by cobra venom into a person bitten by cobra results in

- A. No immunity
- B. Natural immunity
- C. Active immunity
- D. Passive immunity

Answer: D



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861. Teeth conducting poison in a snake are called

- A. Incisors
- B. Canines
- C. Heterodont

D. Fangs

Answer: D



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862. The reptile which glides in the air is

A. Draco

B. Phrynosoma

C. Anguis

D. Calotes

Answer: A



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863. Poisonous fangs of a snake are modified

A. Mandible

B. Maxillary teeth

C. Canines

D. Nasals

Answer: B

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864. Which of the following is a marine snake

A. Enhydrina

B. Typhlops

C. Bungarus

D. Naja

Answer: A

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865. Snake moulting consists of

- A. Epidermis
- B. Dermis
- C. Cornified cells
- D. Stratum germinativum

Answer: C



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866. Pear- shaped head sharply separated from rest of the body and covered with small scales is a feature of

- A. Pythons
- B. Vipers
- C. Kraits

D. Cobras

Answer: B



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867. Large size scales fully extended from side to side on the belly are characteristics of

- A. Krait and sea snake
- B. Cobra and python
- C. Rat snake and Cobra
- D. Python and Krait

Answer: C



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868. Gavial or gharial is found in

- A. Freshwater
- B. Sea water
- C. Brackish water
- D. Terrestrial habitats

Answer: A



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869. Name a nonpoisonous snake

- A. Cobra
- B. Krait
- C. Viper
- D. Rat snake

Answer: D



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870. A stumpy laterally compressed tail is characteristic of

- A. Tree snake
- B. Sea snake
- C. Rat snake
- D. Rattle snake

Answer: B



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871. Order Squamata consists of

- A. Bats

B. Crocodiles

C. Turtles and pangolin

D. Lizards and snakes

Answer: D



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872. Which is correct for indian snakes

A. Only sea snakes are non-poisonous

B. Only sea snakes are poisonous

C. All water snakes are poisonous

D. All sea snakes are poisonous

Answer: D



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873. Besides mammals, diaphragm also occurs in

- A. Birds
- B. Crocodiles
- C. Fishes
- D. Toads

Answer: B



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874. The vestiges of girdles are found in

- A. Cobra
- B. Krait
- C. Rattle snake
- D. Python

Answer: D



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875. In suborder ophidia the vertebrae are

A. Amphicoelus

B. Acoelus

C. Heterocoelus

D. Procoelus

Answer: D



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876. Gila Monster Heloderma occurs in

A. Africa

B. America

C. Central Asia

D. China

Answer: B



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877. When the tail is cylindrical and ventral scales do not extend the entire width of the belly the snake is

A. Non poisonous

B. Either poisonous or non- poisonous

C. Definitely poisonous

D. Deadly poisonous

Answer: A



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878. Cleidoic eggs are found in

- A. Fishes
- B. Amphibia
- C. Reptiles
- D. None of these

Answer: C



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879. Even ventricles of reptiles are partitioned but there is mixing of blood

- A. Due to common ejection and entrance of blood in lungs
- B. Auricles are non- partitioned
- C. Heart is partially four-chambered

D. None of these

Answer: C



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880. Calotes versicolor is a

- A. House lizard
- B. Garden lizard
- C. Flying lizard
- D. Rock lizard

Answer: B



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881. Animal which can move the upper jaw

A. Elephant

B. Crocodile

C. Clarius

D. Frog

Answer: B



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882. Foramen of Panizzae is found in the heart of

A. Rabbit

B. Crocodile

C. Pigeon

D. Frog

Answer: B



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883. Typhlops is

- A. Sea snake
- B. Grass snake
- C. Glass snake
- D. Blind snake

Answer: D



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884. The snake having head shield and elongated hexagonal vertebrals is

- A. Naja
- B. Eryx
- C. Bungarus

D. Ptyas

Answer: C



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885. Which of the following is a poisonous snake

A. Eyrx

B. Natrrix

C. Tree snake

D. Russel's viper

Answer: D



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886. Which of the following snake has hind legs

- A. Python
- B. Bungarus
- C. Typlops
- D. King cobra

Answer: A

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887. The reptile which lacks penis belongs to

- A. Ophidia
- B. Crocodilia
- C. Gymnophiona
- D. Rhychocephalia

Answer: D

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888. Snake has

- A. Movable eyelids
- B. No eyelids
- C. Immovable eyelids
- D. Eyelids placed in pouches

Answer: C



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889. Most favorable land adaptation for reptile is

- A. Moist skin
- B. Scales on body
- C. Pulmonary respiration

D. None of these

Answer: B



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890. Post anal tail is present in

A. Cobra

B. Earth worm

C. Scorpion

D. Lower invertebrate

Answer: A



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891. Diapside skull is found in the following

- A. Natrix, Draco and Turtle
- B. Crocodile, Turtle and Seymouria
- C. Sphenodon, Crocodile and Viper
- D. Calotes, Cobra and Varanosaurus

Answer: C

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892. Antivenin injections used for snake bite are prepared at

- A. IVRI, Bareilly
- B. NDRI, Karnal
- C. Haffkin's Research Institute, Mumbai
- D. IARI, New Delhi

Answer: C

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893. Which of the following systems in man is affected by the bite of cobra

- A. Digestive
- B. Nervous
- C. Excretory
- D. Circulatory

Answer: B



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894. Turtles are

- A. Pisces
- B. Reptiles
- C. Mollusca

D. Arthropods

Answer: B



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895. The type of dentition in Crocodile is

A. Acrodont

B. Bunodont

C. Pleurodont

D. The codont

Answer: D



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896. Scientific name of king cobra is

A. naja

B. Bungarus Coerulus

C. Naja hunnah

D. Vipera russeli

Answer: C



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897. Which of the following is incorrectly matched

A. Spiny tailed lizard- Harawickii

B. Garden lizard - Hemidactylus flaviviridis

C. Gila monster- Heloderma

D. Monitor lizard- Varanus

Answer: B



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898. The characteristic of class Reptilia are

- A. Body covered with moist skin which is devoid of scales, the ear is represented by a tympanum alimentary canal, urinary and reproductive tracts open into a common cloaca
- B. Fresh water animals with bony endoskeleton air bladder to regulate buoyancy
- C. Marine animals with cartilaginous endoskeleton body covered with placoid scales
- D. Body covered with dry and cornified skin, scales over the body are epidermal they do not have external ears

Answer: D



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899. Characteristic features such as four - Chambered heart feather and pneumatic bone is applicable to the class of vertebrate

- A. Cyclotomata
- B. Aves
- C. Reptilia
- D. Mammals

Answer: B



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900. Quill feathers at the base of quill wings are called

- A. Remiges
- B. Barbules
- C. Coverts
- D. Down feathers

Answer: C



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901. The pelvic girdle of birds is attached to a complex structure formed by the fusion of last thoracic all lumbar and first five caudal vertebra This structure is called

A. Symsacrum

B. Symphysis

C. Synkaryon

D. Sympelvis

Answer: A



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902. Penguin is found in

- A. Africa
- B. Australia
- C. America
- D. Antartica

Answer: D

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903. Flightless bird, cassowary is found in

- A. Australia
- B. Newzealand
- C. Indonesia
- D. Mauritious

Answer: A

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904. Which animals have a beak with jaws but no teeth

- A. Aves
- B. Snakes
- C. Mammals
- D. All the above

Answer: A



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905. Characteristic feature of aves is

- A. Presence of beak and feathers
- B. Ability to lay eggs
- C. Air spaces in lungs

D. All the above

Answer: D



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906. Which of the following group of animals maintain high and constant body temperature such as mammals

A. Reptiles

B. Amphibians

C. Birds

D. Fishes

Answer: C



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907. Only right aortic arches are present in the

- A. Reptilia
- B. Mammals
- C. Birds
- D. None of these

Answer: C



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908. Only one ovary is present in the

- A. Aquatic reptiles
- B. Terrestrial reptiles
- C. Birds
- D. Egg laying mammals

Answer: C



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909. Flightless birds belong to

- A. Ratitae
- B. Neornithes
- C. Archaeornithes
- D. None of these

Answer: A



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910. Cleidoic egg is an adaptation for

- A. Aerial life

B. Marine life

C. Aquatic life

D. Terrestrial life

Answer: D



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911. Pneumatic bones of birds

A. Increase the respiratory rate

B. Increase the heart beat rate

C. Increase the CO_2 output

D. Increase the buoyancy

Answer: D



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912. Which one is characteristic for birds

- A. They are flying animals
- B. They are warm blooded
- C. They are Bipedal and have feathers
- D. They are quadrupped and have scales

Answer: C



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913. The beak in birds is toothed in

- A. Ostrich
- B. Kiwi
- C. Archaeopteryx
- D. Pelican

Answer: C



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914. Pneumatic bones are found in

- A. Domestic lizard
- B. Tadpole of frog
- C. Flying lizard
- D. Pigeon

Answer: D



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915. The vertebrae of birds are characteristically

- A. Heterocoelous

B. Acoelous

C. Opisthocoelous

D. Amphicoelous

Answer: A



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916. See the following animals and identify them



A. Calotes, psittacula

B. Testudo, Pavo

C. Pavo, Psittiacula

D. Psittacula, Pavo

Answer: D



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917. The special sound producing organ in birds is

- A. Synix
- B. Glottis
- C. Larynx
- D. Oesophaagus

Answer: A



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918. Who called birds are glorified reptiles

- A. Huxley
- B. Romer
- C. Mendel
- D. Robert Hooke

Answer: A



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919. Which is not aerial adaptation of Birds

- A. Single ovary
- B. Pneumatic bone
- C. Gizzard
- D. Keeled sternum

Answer: C



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920. Renal portal system is absent in

- A. Amphibians

B. Reptiles

C. Amphibians and reptiles

D. Birds

Answer: D



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921. Which one of the following is a flightless bird

A. Passer

B. Corvus

C. Aptenodytes

D. Pavo cristatus

Answer: C



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922. The presence of feathers and power of flight are characteristic feature of

- A. Aves
- B. Reptilia
- C. Mammals
- D. Amphibians

Answer: A



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923. Birds are

- A. Cold blooded
- B. Homoeothermal
- C. Poikilothermal
- D. Homoeopoiesis

Answer: B



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924. Kingfisher is a bird in which the feet are

- A. scratching type
- B. Raptorial type
- C. Perching type
- D. Wading type

Answer: D



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925. Both male and female pigeons secrete milk through

- A. Mammary glands

B. Crop glands

C. Salivary glands

D. Gizzard glands

Answer: B



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926. Birds differ from bats in the absence of

A. 4- chambered heart

B. Homoeothermy

C. Diaphragm

D. Tracheae

Answer: C



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927. The wishbone of the birds is derived from

- A. Skull
- B. Pectoral girdle
- C. Pelvic girdle
- D. Hindlimb

Answer: B



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928. Birds have bipedal locomotion as it

- A. Reduces body weight
- B. Increase rate of locomotion
- C. Provides more support to the body
- D. Spares forelimbs for flight

Answer: D



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929. The largest egg belongs to

A. Elephant

B. Whale

C. Dinosaur

D. Ostrich

Answer: D



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930. Bone marrow does not occur in

A. Fishes

B. Amphibians

C. Birds

D. Reptiles

Answer: C



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931. Preen gland occurs in

A. Pisces

B. Aves

C. Reptilia

D. Mammalia

Answer: B



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932. Without exception, all birds are

- A. Omnivorous
- B. Have feathers and fly
- C. Forms nests and care them
- D. Have calcareous shelled egg

Answer: D



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933. Which of the following is merrythought bone

- A. Coracoid
- B. Clavicle
- C. Scapula
- D. Suprascapula

Answer: B



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934. The living wingless or flightless birds belong to the sperorder

- A. Palaeognathae
- B. Odontognathae
- C. Archaeornithes
- D. None of these

Answer: A



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935. Kiwi is found in

- A. india

B. South America

C. New Zealand

D. East indies

Answer: C



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936. Uropygial gland is associated with

A. Lizard

B. Shark

C. Frog

D. Pigeon

Answer: D



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937. Flight muscles of bird are attached to

- A. Clavicle
- B. Coracoid
- C. Keel of sternum
- D. Scapula

Answer: C



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938. Identify the vertebrate group of animals characterized by crop and gizzard in its digestive system

- A. Amphibia
- B. Reptilia
- C. Aves
- D. Osteichthyes

Answer: C



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939. Instead of tooth, baleen (hanging horny plates in mouth) are found in

A. Blue whale

B. Shark

C. Dolphin

D. Archaeopterix

Answer: A



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940. An egg laying mammale is

A. Didelphys

B. Macaca

C. Ornithorhynchud

D. Macropus

Answer: C

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941. Which one of the following animals is correctly matched with its one characteristic and the taxon

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942. Egg-laying mammals are grouped as

A. Eutheria

B. Prototheria

C. Rodentia

D. Metatheria

Answer: B



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943. Which pair of characters are found without exception in all mammals

A. Hair and viviparity

B. Viviparity and mammary glands

C. Viviparity and internal fertilization

D. Mammary glands and internal fertilization

Answer: D



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944. Which of the following animals is an example of class

- A. Manis
- B. Mammals
- C. Birds and mammals
- D. Mammals and reptiles

Answer: A



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945. External ears are characteristic of

- A. Birds
- B. Mammals
- C. Birds and mammals
- D. Mammals and reptiles

Answer: B



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946. Eutherian mammals are

- A. Oviparous
- B. Viviparous
- C. Ovoviviparous
- D. Both oviparous and ovoviviparous

Answer: B



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947. Which one of the following is not a mamalian character

- A. Presence of milk producing glands

B. They have two pairs of limbs

C. Skin is unique in possessing hair

D. Presence of external ears called pinnae

Answer:



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948. Which one of the following mammals is not an odd-toed ungulate

A. Rhinoceros

B. Camel

C. Zebra

D. Horse

Answer: B



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949. Animals belonging to the order rodentia have

- A. Long incisors
- B. long canines
- C. short incisors
- D. long molars

Answer: A



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950. Tachyglossus is a connecting link between

- A. Reptiles and birds
- B. Amphibians and reptiles
- C. Birds and mammals
- D. Reptiles and mammals

Answer: D



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951. Why do mammals lack mucus glands in their skin

- A. The skin is not slippery
- B. The skin is tough
- C. The epidermis has many layers of cells
- D. The skin is not respiratory

Answer: D



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952. In which one of the following sets of animals do all the four give birth to young ones

A. Shrew, Bat, Cat, Kiwi

B. Kangaroo, Hedgehog, Dolphin, Loris

C. Lion, Bat, Whale, Ostrich

D. Platypus, Penguin, Bat, Hippopotamus

Answer: B



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953. Which of the following is a connecting link between mammals and reptiles

A. Peripatus

B. Balanoglossus

C. Ornithorhynchus

D. Archaeopteryx

Answer: C

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954. 12 pairs of cranial nerves are present in

- A. Reptilia
- B. Birds only
- C. Mammals only
- D. All the above

Answer: D

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955. Rabbit belongs to the order

- A. Rodentia
- B. Lagomorpha
- C. Artiodactyla

D. Perissodactyla

Answer: B



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956. Mammals have originated from which of the following

A. Pisces

B. Amphibia

C. Reptilia

D. Aves

Answer: C



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957. Which one of the following is a metatherian

A. Didelphis

B. Ornithorhynchus

C. Tarsier

D. Hyterics

Answer: A



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958. The mammal which possesses both the reptiles and mammalian characters

A. Marsupials

B. Monotremes

C. Equus

D. Oryctolagus

Answer: B

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959. Kangaroo is a member of which order

- A. Monotremata
- B. Marsupilia
- C. Prototheria
- D. Insectivora

Answer: B

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960. Bat can travel with

- A. Eyes open
- B. Eyes plugged and ears open
- C. Ears plugged and eyes open

D. Ears closed and eyes plugged

Answer: B



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961. Egg laying mammals are found in

A. India

B. South africa

C. Africa

D. Australia

Answer: D



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962. A fat called blubber could be obtained from

A. Bat

B. Dolphin

C. Shark

D. Blue whale

Answer: D



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963. Identify the aquatic mammal (s) from the following

(A) Balaenoptera

(B) Equus

(C) Delphinus

(D) Pterophus

A. (A) and (C) only

B. (B) and (D) only

C. (E) only

D. (D) and (E) only

Answer: A



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964. Which of the following four animals does not come under the same order as the other three

A. Rat

B. Squirrel

C. porcupine

D. Rabbit

Answer: D



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965. Ruminants belongs to order

- A. Proboscida
- B. Artiodactyla
- C. Marsupials
- D. Edentata

Answer: B



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966. Pouch is seen in

- A. Platypus
- B. Bat
- C. Lemur
- D. Marsupial

Answer: D



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967. The biological name of 'domestic cat' is

- A. *Panthera domestic*
- B. *Felis domestica*
- C. *Felis leo*
- D. *Panthera indica*

Answer: B



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968. Which one of the following characters is not typical of the class

Mammalia

A. Thecodont denition Alveolar lungs Ten pairs of cranial nerves

seven cervical vertebrea [CBSE PMT 2005

B. Alveolar lungs

C. Tem pairs of cranial nerves

D. Seven cervical vertebrae

Answer: C



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969. Which of the following structures is present characteristically only in mammalian brain

A. Corpus fibosum

B. Corpus striatum

C. Corpus luteum

D. Corpus callosum

Answer: D



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970. Flippers of seal are modified

- A. Fins
- B. Hind limb
- C. Forelimb
- D. Gills

Answer: C



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971. The feet with two toes forming cloven hoof is seen in

- A. Horse

B. Zebra

C. Rhinoceros

D. deer

Answer: D



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972. the zoological name of common here found in northern india is

A. *Oryctolagus cuniculus*

B. *Lepus ruficaudatus*

C. *Dasypus sexcinctus*

D. *Alactaga indica*

Answer: B



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973. The following mammal lays eggs

- A. Porcupine
- B. Platypus
- C. Kangaroo
- D. Koala

Answer: B



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974. Double Vagina are found in

- A. Monotremata
- B. Eutheria
- C. Marsupials
- D. All of the above

Answer: C



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975. Which of the following is not viviparous

- A. Mole
- B. Platypus
- C. Kangaroo
- D. Shrew

Answer: B



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976. One of the followings is a very unique feature of the mammalian body

- A. Four chambered heart
- B. Rib cage
- C. Homeothermy
- D. Presence of diaphragm

Answer: D

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977. Select the correct set of animals of class-mammalia

- A. Lion, hippopotamus, penguin, bat
- B. Lion, bat, whale, ostrich
- C. Hippopotamus, penguin, whale, kangaroo
- D. Whale, bat, kangaroo, hippopotamus

Answer: D

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978. Which characters is not same in aves and mammals

- A. single systemic arch
- B. Metanephric kidney
- C. Seven cervical vertebrse
- D. Homoiotherms

Answer: C



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979. All mamals

- A. Give birth to live young
- B. Have a thick coat of hair
- C. Nourish their young with milk

D. Have a uterus

Answer: C



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980. Most animals domesticated by man belong to the order

A. Carnivora

B. Rodentia

C. Ungulata

D. Lagomorpha

Answer: C



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981. Which of the following is prototherian

A. Platypus

B. Macropus

C. Opposum

D. Bradypus

Answer: A



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982. Jaw suspension characteristic of mammals is

A. Amphistylic

B. Craniostylic

C. Autodiastylic

D. Hyostylic

Answer: B



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983. When embryo develops in the body of female but it does not obtain nutrients from the mother

- A. Ovo-viviparous
- B. Viviparous
- C. Oviparous
- D. None of these

Answer: A



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984. Identify the names of animals A,B, and C



- A. Balenopter, Macropus, Pteropus
- B. Balaenoptera, Pteropus , Macropus

C. Macropus, Balaenoptera, Pteropus

D. Pteropus, Balaeoptera, Macropus

Answer: D



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985. Which of the following is rightly matched

A. Mammalia- Human beings

B. Mollusca - Centipede

C. Pisces- Silver fish

D. Echinoderm-Echidna

Answer: A



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986. Consider the following four statements (A-D) about certain desert animals such as kangaroo rat

- A. They have dark colour and high rate of reproduction and excrete solid urine
- B. They do not drink water, breathe at a slow rate to conserve water and have their body covered with thick hairs
- C. They feed on dry seeds and do not require drinking water
- D. They excrete very concentrated urine and do not use water to regulate body temperature

Answer: D



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987. Considered the following four conditions (A-D) and select the correct pair of them as adaptation to environment in desert lizards. The

conditions

- (a) Burrowing in soil to escape high temperature
- (b) Losing heat rapidly from the body during high temperature
- (c) Bask in sun when temperature is low
- (d) Insulating body due to thick fatty dermis options

A. (A), (B)

B. (C),(D)

C. (A),(D)

D. (B),(D)

Answer: C



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988. Which one of the following is categorised as a parasite in true sense

- A. The cuckoo (Koel) lays its egg in crow's nest
- B. The female Anopheles bites and sucks blood from humans

C. Human foetus developing inside the uterus draws nourishment from the mother

D. Head louse living on the human scalp as well as laying eggs on human hair

Answer: D

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989. Which one of the following animals is correctly matched with its particular named taxonomic category

A. Housefly- Musca, an order

B. Tiger- Tigeris, The species

C. Cuttlefish- Mollusca a class

D. Humans- Primata, the family

Answer: B

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990. Pick the mammal with true placenta

- A. kangaroo
- B. Echidna
- C. Platypus
- D. Mongoose

Answer: D

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991. Which of the following is not a mammalian character

- A. Hairy skin
- B. Muscular diaphragm
- C. 3- chamberd heart

D. RBSs enucleated

Answer: C



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992. Diaphragm is found in

A. Crocodile

B. Kangaroo

C. Ostrich

D. Snake

Answer: B



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993. Arboreal mammals have

- A. Flying character
- B. Burrowing character
- C. Climbing character
- D. None of these

Answer: C

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994. Hairs occur in all mammals except those of

- A. Chiroptera
- B. Rodentia
- C. Cetacea
- D. Primates

Answer: C

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995. The sweat gland are scanty in

- A. Elephant
- B. Man
- C. Rabbit
- D. Polar bear

Answer: D



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996. Sea lion belongs to

- A. Class Reptilia
- B. Subclass Prototheria
- C. Superclass Pisces

D. Order Carnivora

Answer: D



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997. The Zoological name of Lion tailed macaque is

- A. *Macaca rhesus*
- B. *Macaca silenus*
- C. *Macaca mulatta*
- D. None of these

Answer: B



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998. Locomotion in kangaroo is

A. Saltatorial

B. Volant

C. Cursorial

D. Creeping

Answer: A



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999. Pinna is absent in

A. Sirenia

B. Primates

C. Rodentia

D. All of these

Answer: A



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1000. Which one has a poison gland

- A. Wall lizard
- B. Scoliodon
- C. Rat snake
- D. Male platypus

Answer: D



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1001. In mammals, few vertebrae join to form

- A. Humerus
- B. Femur
- C. Synsacrum

D. Atlas

Answer: C



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1002. Whale is air breather but can live under water for a long time because it possesses

- A. Large lungs
- B. Small lungs
- C. Blubber
- D. Retea mirabile

Answer: D



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1003. Only poisonous mammal or monotreme mammal is

- A. Ornithorhynchus
- B. Echidna
- C. Guinea pig
- D. Snake

Answer: A



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1004. Which will not affect echolocation in bats

- A. Covering eyes only
- B. Covering the whole head
- C. Covering the ears
- D. Covering the eyes and ears

Answer: A



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1005. Most primitive living mammals which provide an evidence of organic evolution from geographical distribution are found in

- A. Africa
- B. Australia
- C. China
- D. India

Answer: B



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1006. The zoological name of lion is

A. *Felis leo*

B. *Panthera tigris*

C. *Panthera pardus*

D. *Panthera leo persica*

Answer: D



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1007. Which of the following mammals lacks corpus callosum

A. *Macaca*

B. *Macropus*

C. *Balaenoptera*

D. *Ornithorhynchus*

Answer: D



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1008. Vestigial pelvic girdle and bones of hind limbs are the characteristic of

- A. Whales
- B. Otters
- C. Rodents
- D. Sharks

Answer: A



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1009. Which of the following exist in maximum number of terms of genera and species

- A. Aquatic mammals
- B. Carnivore mammals

C. Herbivore mammals

D. Terrestrial mammals

Answer: D



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1010. Which of the following is largest mammals

A. Whale

B. Elephant

C. Camel

D. Dinosaur

Answer: A



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1011. Without teats, mammary glands are found in

- A. Prototheria
- B. Metatheria
- C. Eutheria
- D. Theria

Answer: A



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1012. Bats belong to which order

- A. Monotremata
- B. chiroptera
- C. Dermoptera
- D. Cetacea

Answer: B



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1013. A group of animals having marsupium

A. Monotremata

B. Eutheria

C. Metatheria

D. Prototheria

Answer: C



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1014. Echidna is found in

A. India

B. Africa

C. Malaysia

D. Australia

Answer: D



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1015. Which one of the following is egg- laying mammal

A. Pangolin

B. Tachyglossus

C. porcupine

D. Bat

Answer: B



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1016. Order primata contains

- A. Shrew and hedge hog
- B. Bats and vampire
- C. Monkeys and man
- D. Horses and zebra

Answer: C



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1017. The order insectivora comes under

- A. Class- mammalia
- B. Class - insecta
- C. Phylum- echinodermata
- D. Phylum- arthropoda

Answer: A



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1018. Which of the following represents order of Horse ?

- A. Equidae
- B. Perissodactyla
- C. Caballus
- D. Ferus

Answer: B



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1019. In some animal groups, the body is found divided into compartments with serial repetition of at least some organs. This characteristic feature is called

A. Segmentation

B. Metamerism

C. Metagenesis

D. Metamorphosis

Answer: B



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1020. Given below are types of cells present in some animals. Which of the following cells can differentiate to perform different functions ?

A. Choanocytes

B. Interstitial cells

C. Gastrodermal cells

D. Nematocytes

Answer: B

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1021. Which one of the following sets of animals share a four chambered heart ?

- A. Amphibian, Reptiles, Birds
- B. Crocodiles, Birds, Mammals
- C. Crocodiles, Lizards, Turtles
- D. Lizard, Mammals, Birds

Answer: B

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1022. Which of the following pairs of animals has non-glandular skin ?

- A. Snake and Frog
- B. Chameleon and Turtle

C. Frog and Pigeon

D. Crocodile and Tiger

Answer: C



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1023. Birds and mammals share one of the following characteristics as a common feature.

A. Pigmented skin

B. Alimentary canal with some modification

C. Viviparity

D. Warm blooded nature

Answer: D



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1024. Which one of the following sets of animals belong to a single taxonomic group ?

- A. Cuttlefish, Jellyfish, Silverfish, Dogfish, Starfish
- B. Bat, Pigeon, Butterfly
- C. Monkey, Chimpanzee, Man, Gorilla
- D. Silkworm, Tapeworm, Earthworm

Answer: C



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1025. Which one of the following statements is incorrect

- A. Mesoglea is present in between ectoderm and endoderm in obelia
- B. Radial symmetry is found in Asterias
- C. Fasciola is a pseudocoelomate animal
- D. Taenia is a triploblastic animal

Answer: C



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1026. Which one of the following statements is incorrect

- A. In cockroaches and prawns excretion of waste material occurs through malpighian tubules.
- B. In ctenophors, locomotion is mediated by comb plates
- C. In Fasciola flame cells take part in excretion
- D. Earthworms are hermaphrodites and yet cross fertilization take place among them

Answer: A



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1027. Which one of the following is oviparous ?

A. Platypus

B. Flying fox (Bat)

C. Elephant

D. Whale

Answer: A



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1028. Which one of the following is not a poisonous snake ?

A. Cobra

B. Viper

C. Python

D. Krait

Answer: C



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1029. Match the following list of animals with their level of organisation.

Division of Labour	Animal
A. Organ level	<i>i.</i> Pheretima
B. Cellular aggregate level	<i>ii.</i> Fasciola
C. Tissue level	<i>iii.</i> Spongilla
D. Organ system level	<i>iv.</i> Obelia

Choose the correct match showing division of labour with animal example.

A. i=B, ii-C, iii-D, iv-A

B. i-B, ii-D, iii-C, iv-A

C. i-D, ii-A, iii-B, iv-C

D. i-A, ii-D, iii-C, iv-B

Answer: C



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1030. Body cavity is the cavity present between body wall and gut wall. In some animals the body cavity is not lined by mesoderm. Such animals are called

- A. Acoelomate
- B. Pseudocoelomate
- C. Coelomate
- D. Haemocoelomate

Answer: B



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1031. Match of column A with column B and choose the correct option.

Column A

Column B

A. Porifera

i. Canal system

B. Aschelminthes

ii. Water-vascular system

C. Annelida

iii. Muscular pharynx

D. Arthropoda

iv. Jointed appendages

E. Echinodermata

v. Metameres

A. A-ii, B-iii,C-v,D-iv,E-i

B. A-ii, B-v, C-iii, D-iv,E-i

C. A-I, B-iii, C-v, D-iv,E-ii

D. A-I,B-v,C-iii, D-iv, E-ii

Answer: C



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1032. Note the following:

A. it is a fresh water, metamerically segmented protostome

B. The clitellum is absent

C. It is unisexual

D. Its larval form is Trochophore

E. The nervous system is found in the epidermis Which of the above is true is paddle worm

A. A,B and E

B. B,C and E

C. B,C and D

D. C, D and E

Answer: C



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1033. Which of the following endoparasites of humans does show viviparity

A. *Enterobius vermicularis*

B. *Trichinella spiralis*

C. *Ascaris lumbricoides*

D. *Ancylostoma duodenale*

Answer: B



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1034. Match the following

List I

- (A) Green glands
- (B) Amphids and phasmids
- (C) Ctenidia
- (D) Poison claw
- (E) Concholin

List II

- (I) Scolopendra
- (II) Respiratory organ
- (III) Shell protein
- (IV) Excretory organs
- (V) Sense organs

the correct match is



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1035. Match list I with list II and choose the correction option

List I(Organism)

List II(Excretory structure)

- | | |
|-------------------|------------------------|
| (A) Cockroach | (1) Nephridia |
| (B) Clarias | (2) Malpighian tubules |
| (C) Earthworm | (3) Kidneys |
| (D) Balanoglossus | (4) Flame cells |
| (E) Flatworm | (5) Proboscis gland |

A. (A)-(1),(B)-(3),(C)-(2),(D)-(4),(E)-(5)

B. (A)-(3),(B)-(1),(C)-(2),(D)-(5),(E)-(4)

C. (A)-(2),(B)-(1),(C)-(3),(D)-(5),(E)-(4)

D. (A)-(2),(B)-(1),(C)-(5),(D)-(3),(E)-(4)

Answer:



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1036. Coelom is cavity found between

- A. Ectoderm and endoderm
- B. Mesoderm and Endoderm
- C. Body wall and ectoderm
- D. Mesoderm and body wall

Answer: A



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1037. In Hydra, both pseudopodia and flafella occur in

- A. Nutritive cells
- B. Epithelio-muscular cells
- C. Sensory cells
- D. Gland cells

Answer: A

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1038. Common between trichocysts of Paramecium and nematocysts of Hydra is

- A. Attachment and defence
- B. Defence only
- C. Sensitivity
- D. Food capturing

Answer: B

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1039. In Hydra, egestion of undigested food and excretion of nitrogenous wastes occur through

- A. Mouth and tentacles
- B. Mouth and body wall
- C. Mouth and mouth
- D. Body wall and body wall

Answer: B

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1040. The scientific name of Asian tiger mosquito

- A. *Aedes aegypti*
- B. *Aedes albopictus*

C. *Aedes taeniorhynchus*

D. *Aedes alobolineatus*

Answer: B

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1041. *Taenia saginata* differs from *Taenia solium* in

A. Absence of scolex hooks

B. Absence of scolex hooks and uterine branching

C. Absence of scolex hooks and presence of both male and female reproductive organs

D. Presence of scolex hooks

Answer: A

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1042. Correctly matched set of phylum, class and example is

- A. Protozoa- Mastigophora-Entamoeba
- B. Mollusca- Bivalvia- Pinactada
- C. Arthropoda- Diplopoda- Scolopendra
- D. Chordata- Cyclostomata-Phrynosoma

Answer: B



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1043. Sites of first, second and third moulting of *Ascaris* larva are

- A. Soil, lung, intestine
- B. Soil, alveoli, lung
- C. Soil, intestine, lung
- D. Liver, stomach, intestine

Answer: C



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1044. Match list I with List II and select the correct option

List I	List II
A Protozoa	1 Pennatula
B Aschelminthes	2 Beroe
C Poorifera	3 Monocystis
D Ctenophora	4 Wuchereria
E Cnidaria	5 Cliona

A. A-3,B-5,C-4,D-1,E-2

B. A-4,B-3,C-5, D-2, E-1

C. A-3,B-4, C-5, D-2,E-1

D. A-2, B-4,C-5,D-3,E-1

Answer: C



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1045. Note the following:

A. it is a fresh water, metamerically segmented protostome

B. The clitellum is absent

C. It is unisexual

D. Its larval form is Trochophore

E. The nervous system is found in the epidermis Which of the above is true is paddle worm

A. A,B and E

B. B,C and E

C. B,C and D

D. C, D and E

Answer: c



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1046. Which of the following endoparasites of humans does show vivparity

A. *Enterobius vermicularis*

B. *Trichinella spiralis*

C. *Ascaris lumbricoides*

D. *Ancylostoma duodenale*

Answer: b

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1047. Match the following

List I

- (A) Green glands
- (B) Amphids and phasmids
- (C) Ctenidia
- (D) Poison claw
- (E) Concholin

List II

- (I) Scolopendra
- (II) Respiratory organ
- (III) Shell protein
- (IV) Excretory organs
- (V) Sense organs

the correct match is

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1048. Match list I with list II and choose the correction option

List I(Organism)	List II(Excretory structure)
(A) Cockroach	(1) Nephridia
(B) Clarias	(2) Malpighian tubules
(C) Earthworm	(3) Kidneys
(D) Balanoglossus	(4) Flame cells
(E) Flatworm	(5) Proboscis gland

A. (A)-(1),(B)-(3),(C)-(2),(D)-(4),(E)-(5)

B. (A)-(3),(B)-(1),(C)-(2),(D)-(5),(E)-(4)

C. (A)-(2),(B)-(1),(C)-(3),(D)-(5),(E)-(4)

D. (A)-(2),(B)-(1),(C)-(5),(D)-(3),(E)-(4)

Answer: e



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1049. Coelom is cavity found between

A. Ectoderm and endoderm

B. Mesoderm and Endoderm

C. Body wall and ectoderm

D. Mesoderm and body wall

Answer: a



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1050. In Hydra, both pseudopodia and flagella occur in

A. Nutritive cells

B. Epithelio-muscular cells

C. Sensory cells

D. Gland cells

Answer: a



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1051. Common between trichocysts of Paramecium and nematocysts of Hydra is

- A. Attachment and defence
- B. Defence only
- C. Sensitivity
- D. Food capturing

Answer: b



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1052. In Hydra, egestion of undigested food and excretion of nitrogenous wastes occur through

- A. Mouth and tentacles
- B. Mouth and body wall
- C. Mouth and mouth

D. Body wall and body wall

Answer: b



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1053. The scientific name of Asian tiger mosquito

A. *Aedes aegypti*

B. *Aedes albopictus*

C. *Aedes taeniorhynchus*

D. *Aedes alobolineatus*

Answer: b



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A. Absence of scolex hooks

B. Absence of scolex hooks and uterine branching

C. Absence of scolex hooks and presence of both male and female reproductive organs

D. Presence of scolex hooks

Answer: a



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1055. Correctly matched set of phylum, class and example is

A. Protozoa- Mastigophora-Entamoeba

B. Mollusca- Bivalvia- Pinactada

C. Arthropoda- Diplopoda- Scolopendra

D. Chordata- Cyclostomata-Phrynosoma

Answer: b



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1056. Sites of first, second and third moulting of *Ascaris* larva are

- A. Soil, lung, intestine
- B. Soil, alveoli, lung
- C. Soil, intestine, lung
- D. Liver, stomach, intestine

Answer: c



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1057. Match list I with List II and select the correct option

List I	List II
A Protozoa	1 Pennatula
B Aschelminthes	2 Beroe
C Poorifera	3 Monocystis
D Ctenophora	4 Wuchereria
E Cnidaria	5 Cliona

A. A-3,B-5,C-4,D-1,E-2

B. A-4,B-3,C-5, D-2, E-1

C. A-3,B-4, C-5, D-2,E-1

D. A-2, B-4,C-5,D-3,E-1

Answer: c



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1058. Dorsal vessel of Earthworm is

A. Distribution

B. Collecting

C. Collecting in first thirteen segments and distributing in the rest

D. Distributing in first thirteen segments and collecting in the rest

Answer: D



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1059. Blood glands of Pheretima take part in

- A. Formation of red blood corpuscles
- B. Formation of phagocytes
- C. Maintenance of blood volume
- D. Maintenance of blood circulation

Answer: A



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1060. Read the following statements and select the incorrect ones.

- (i) Circulatory system in arthropods is of closed type.
- (ii) Parapodia in annelids help in swimming.
- (iii) Phylum Mollusca is the second largest animal phylum.
- (iv) Aschelminthes are dioecious.

A. A and C alone are wrong

B. A alone is wrong

C. C alone is wrong

D. C and D alone are wrong

Answer: B



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1061. Weberian ossicles are found in

A. Frogs

B. Snakes

C. Fishes

D. Birds

Answer: C



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1062. Match the items in column I with column II and choose the correct option

Column I	Column II
(A) Ascus	(1) Spirulina
(B) Basidium	(2) Penicillium
(C) Protista	(3) Agaricus
(D) Cyanobacteria	(4) Euglena
(E) Animalia	(5) Sponges

A. (A)-(2),(B)-(3),(C)-(4),(D)-(5),(E)-(1)

B. (A)-(1),(B)-(2),(C)-(3),(D)-(5),(E)-(4)

C. (A)-(1),(B)-(2),(C)-(3),(D)-(5),(E)-(4)

D. (A)-(2),(B)-(3),(C)-(4),(D)-(1),(E)-(5)

Answer:



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1063. Which of the following group of characters is present in all chordates in some or other stage in their life or Chordates differ from nonchordates in having

- A. Mammary glands, hair and gill slits
- B. Notochord, gill slits and dorsal tubular nervous system
- C. Notochord, scales and dorsal tubular nervous system
- D. Gill slits, vertebral column and notochord

Answer: B



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1064. What is true about Neriis, Scorpion, Cockroach and silver fish

- A. They all have jointed paired appendages
- B. They all possess dorsal heart
- C. None of them is aquatic

D. They all belong to the same phylum

Answer: B



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1065. Which of the following pairs are correctly matched ?

- | | Animals | | Morphological features |
|-------|------------|---|------------------------|
| (i) | Crocodile | – | 4-chambered heart |
| (ii) | Sea urchin | – | Parapodia |
| (iii) | Obelia | – | Metagenesis |
| (iv) | Lemur | – | Thecodont |



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1066. Which one of the following is matching set of a phylum and its three examples

A. Mollusca-Loligo, Teredo, Octopus

B. Porifera- Spongilla, Euplectella, Pennatula

C. Cnidaria- Bonelia, Physalia, Aurelia

D. Platyhelminthes - planaria , Schistosoma, Enterobius

Answer: A



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1067. Which is living fossil

A. Coelacanth

B. Limulus

C. Sphenodon

D. All of these

Answer: D



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1068. The group amniota includes

- A. Birds and reptiles
- B. Birds and mammals
- C. Reptiles and mammals
- D. Reptiles, birds and mammals

Answer: D



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1069. The animal group, where the adults are degenerated but larvae are well developed, is

- A. Agnatha
- B. Tunicates
- C. Amphibians and reptiles
- D. Cephalo chordates

Answer: B



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1070. Which one of the following statements is incorrect

- A. In insects, circulating body fluids serve to distribute oxygen to tissues
- B. The principle of countercurrent flow facilitates efficient respiration in gills of fishes
- C. The residual air in lungs slightly decreases the efficiency of respiration in mammals
- D. The presence of non-respiratory air sacs, increases the efficiency of respiration in birds

Answer: A



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1071. Which of the following statements is true

- A. All living members of class cyclostomata are parasites on some fishes
- B. There are about 2,000 species in the class osteichthyes
- C. Ciona belongs to the subphylum cephalochordata
- D. Arthropods are diploblastic animals

Answer: A



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1072. Heterocercal tail is found in

- A. Cartilaginous fishes
- B. Bony fishes
- C. Whale
- D. Amphibians

Answer: A



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1073. Stenohaline fishes are represented by

- A. Fresh water fishes only
- B. Marine fishes only
- C. Those which can tolerate a narrow range of salinity in water only
- D. Those which can tolerate a wide range of salinity in water

Answer: C



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1074. Fishes having swim bladder, which do not have direct communication with the exterior and where resorbent and seretory part is not sharply separated from one another are called as

A. Physostomes

B. Physoclists

C. Euphysoclists

D. Paraphysoclists

Answer: B



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1075. Which one of the following combination is generally recommended for composite fish farming in india

A. Catla, Cyprinus, Clarias

B. Catla, Labeo, Cirrhinus

C. Cirrhinus, Cyprinus, Channa

D. Claris, Chanos, Cyprinus

Answer: B

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1076. Which type of coelom is found in frog

- A. Enterocoel
- B. Schizocoel
- C. Pseudocoel
- D. Haemocoel

Answer: A

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1077. Which of the following statements are true// false

- A. In Torpedo the electric organs are capable of generating strong strong electric shock to paralyze the prey
- B. Bony fishes use pectoral, pelvic, dorsal, anal and caudal fins in swimming

C. Amphibians skin is moist and has thick scales

D. Birds are poikilothermous animals

E. The most unique mammalian characteristic is the presence of milk producing mammary glands by which the young ones are nourished

A. A,B and C are true, D,E are false

B. A, B and E are true, C and D are false

C. A, D and E are true, B and C are false

D. A, B and D are false, C and E are true

Answer: B



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1078. Which one of the following is not a poisonous snake ?

A. Naja naja

B. Python

C. Bungarus

D. Hydrophis

Answer: B



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1079. Limbless lizard is

A. Draco

B. Ophisaurus

C. Amblyrhynchus

D. Moloch

Answer: B



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1080. Reptiles share which of the following character with birds and mammals

- A. Amnion
- B. Diaphragm
- C. Homeothermy
- D. All of these

Answer: A



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1081. In which of the following subclasses of reptiles, the skull has a solid roof

- A. Anapsida
- B. Diapsida
- C. Synapsida

D. Parapsida

Answer: A



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1082. Which of the following bird is viviparous

A. Penguin Humming Bird

B. Albatross

C. None of these

D.

Answer: D



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1083. Which of the following sets is of flightless birds

A. Penguin, Peacock, Fowl, Rhea, Kiwi, Moa, Ostrich

B. Emu, Penguin, Rhea, Kiwi, Moa, Cassowary, Ostrich

C. Albatros, Humming bird, Falcon, Hawk, Emu

D. Ostrich, Emu, Kiwi, Falcon, Albatros

Answer: B



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1084. Which is the common character between all the mammals

A. They are oviparous

B. They are herbivorous

C. They are carnivorous

D. They have seven cervical vertebrae

Answer: D



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1085. Find the odd example

- A. Sea lily
- B. Sea fan
- C. Sea cucumber
- D. Sea urchin

Answer: B



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1086. Annual migration does not occur in the case of

- A. Salamander
- B. Arctic tern
- C. Salmon

D. Siberian crane

Answer: A



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1087. Match the following

Column I	Column II
A Euplectella	1. Sea pen
B Physalia	2 Pinworm
C Pennatula	3 Venus flower basket
D Enterobius	4 Midwife toad
E Alytes	5 Portuguese man of war

A. A-5, B-4,C-3,D-2,E-1

B. A-5, B-3, C-4, D-2, E-1

C. A-3, B-5, C-1, D-2, E-3

D. A-3, B-5, C-1, D-2, E-4

Answer: D



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1088. During its life cycle *Fasciola hepatica* (Liver fluke) infects its intermediate host and primary host at the following larval stages respectively

- A. Redia and miracidium
- B. Cercaria and redia
- C. Metacercaria and cercaria
- D. Miracidium and metacercaria

Answer: D



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1089. Sea cows are aquatic mammals included under

- A. Lagomorpha
- B. Pinnipedia

C. Cetacea

D. Sirenia

Answer: D



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1090. Given below are four matchings of an animal and its kind of respiratory organ.

- A. Silver fish - Trachea
- B. Scorpion - Book lung
- C. Sea squirt - Pharyngeal gill slits
- D. Dolphin - Skin

The correct matchings are

A. 3 and 4

B. 1 and 4

C. 1, 2 and 3

D. 2 and 4

Answer: C



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1091. Sycon belongs to a group of animals which are best described as

- A. Multicellular having tissue organization but not body cavity
- B. Unicellular or acellular
- C. Multicellular without any tissue organization
- D. Multicellular with a gastrovascular system

Answer: C



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1092. The correct route through which *Ascaris* passes to complete its life cycle after infecting a fresh host is

A. Intestine

$\rightarrow liver \rightarrow heart \rightarrow lung \rightarrow Pharynx \rightarrow G \underline{\underline{t}} \rightarrow s \rightarrow mach$

B.

$outside \rightarrow \int est \in e \rightarrow liver \rightarrow heart \rightarrow lung \rightarrow pharynx \rightarrow g \underline{\underline{t}}$

C.

$\int est \in e \rightarrow liver \rightarrow heart \rightarrow lung \rightarrow pharynx \rightarrow G \underline{\underline{t}} \rightarrow s \rightarrow$

D.

$outside \rightarrow \int est \in e \rightarrow liver \rightarrow heart \rightarrow lung \rightarrow Pharynx \rightarrow G \underline{\underline{t}}$

Answer: C



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1093. Structure common between earthworm and cockroach is

Or Which one feature is common to leech cockroach and scorpion

A. Heart

B. Nerve cord

C. Nephridia

D. Spermethecae

Answer: A



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1094. Fertilization in earthworm is

A. Cross fertilization

B. Mutual fertilization

C. Self fertilization

D. None of these

Answer: A



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1095. Choose the correct combination of the following

- A. Annelida and porifera - phyla
- B. Aves and chordata - classes
- C. Mollusca and hydrozoa- classes
- D. Oligochaeta and arthropoda- phyla

Answer: A



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1096. Maximum nutritional diversity is found in the group:-

- A. Fungi
- B. Animalia
- C. Monera
- D. Plantae

Answer: B



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1097. Phylum annelida resembles mollusca in embryonic features because both have

- A. Spiral cleavage and mesoderm formation
- B. Identical conspicuous segmentation in body, muscles and nervous system
- C. Meroblastic cleavage and ectoderm formation
- D. Special type of mouth parts

Answer: A



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1098. The group that does not fit into this category

A. Amphibia

B. Reptiles

C. Aves

D. Mammals

Answer: A



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1099. In bioluminescence storage, energy changes into

A. Light energy

B. Radiant energy

C. chemical energy

D. Mechanical energy

Answer: A



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1100. The main difference between Gymnophiona (Apoda) and Urodela is that Urodela

- A. Have two auricles and one ventricle
- B. Have smooth moist skin
- C. Have a cloaca
- D. Respire by lungs in the adult stage

Answer: B



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1101. Body cavity surrounding alimentary canal but it is not lined by cellular layer in which of the following

- A. Nematodes
- B. Platyhelminthes

C. Annelids

D. Echinoderms

Answer: A



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1102. Match the items in column I with column II and choose the correct option

Column I	Column II
A Binary fission	1 Algae
B Zoospore	2 Amoeba
C Conidium	3 Hydra
D Budding	4 Penicillium
E Germules	5 Sponge

A. A-1, B-4, C-5, D-3, E-2

B. A-2, B-1, C-4, D-3, E-5

C. A-2, B-4, C-3, D-5, E-1

D. A-1, B-4, C-3, D-2, E-5

Answer: B



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1103. In which one of the following, the genus name, its two characters and its phylum are not correctly matched?

Genus name	Characters	Phylum
(d) <i>Periplaneta</i>	(i) Jointed appendages (ii) Chitinous exoskeleton	Arthropoda



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1104. Sinking of zooplankton during the day and rising to the surface at night is an example of

- A. Circinal rhythm
- B. Circadian rhythm
- C. Tidal rhythm
- D. None of these

Answer: B



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1105. Which one of the following is not correctly matched

- A. Sycon- canal system
- B. Star fish- radial symmetry
- C. Ascaris - flame cell
- D. Prawn- haemocoel

Answer: C



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1106. Match column I with column II and select the correct option from the given codes.

Column – I *Column – II*

A. Choanocytes (ii) Platyhelminthes

B. Cnidoblasts (ii) Ctenophora

C. Flame cells (iii) Porifera

D. Nephridia (iv) Coelenterate

E. Comb plates (v) Annelida

A. A-2, B-1, C-4, D-5, E-3

B. A-2, B-4, C-1, D-5, E-3

C. A-5, B-1, C-3, D-2, E-4

D. A-3, B-4, C-1, D-5, E-2

Answer: D



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1107. Which one of the following statements about all the four of Spongilla, leech, dophin and penguin is correct ?

A. All are bilaterally symmetrical

B. Penguin is homoiothermic while the remaining three are poikilothermic

C. Leech is a fresh water form while all others are marine

D. Spongilla has special collared cells called choanocytes not found in the remaining three

Answer: D



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1108. Animals possess nerve networks or nervous systems to respond to their environment. But the single celled Amoeba does not possess any nerve cell, so how does it come to know whether a particle it encounters is gain or sand and not its dinner

A. By chemotaxis

B. By skin

C. By hormones

D. All of these

Answer: A



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1109. Retractable claws are found in

A. Cat and Lion

B. Leopard

C. Hyaena

D. All of the above

Answer: D



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1110. Identify the names of the following figure A, B, C, D,E and F from the given option



A. A- Tape worm, B- Liver fluke, C- Male Roundworm D- Female Roundworm E- Nereis F- Hirudinaria

B. A- Tape worm B- liver fluke C- female Roundworm D- Male Roundworm E- Nereis F- Hirudinaria

C. A- Tape worm B- Liver fluke C- Male Roundworm D- Female Roundworm E- Hirudinaria F- Nereis

D. A- tape worm B- Liver fluke C- female Roundworm D- Male Roundworm E- Hirudinaria F- Nereis

Answer: A



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1111. Identify the following figures correctly



- A. A- Butterfly B- Scorpion C- Prawn, D- Pila
- B. A- Locust, B- Scorpion, C- Pra
- C. A- Locust, B- Prawn, C- Scorpion, D- Pila
- D. A- Locust, B- Scorpion, C- Prawn D- pila

Answer: D



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1112. Identify the names of the following figure from the given option



- A. A- Ophiura, B- Asterias, C- Octopus
- B. A- Octopus, B- Asterias, C- Ophiura
- C. A- Octopus, B- Asterias, C- Ascidia

D. A- Octopus, B- Ascidia, C- Ophiura

Answer: B

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1113. Identify the name of given animals with their respective classes



A. A- Neophron, Aves B- Struthiom Reptilia C- Ornithorhynchus,
Mammalia


B. A- Neophron , Aves B- Struthiom Aves, C- Ornithorhynchus, Aves

C. A- Neophron Aves, B- Struthio Mammalia, C- Ornithorhynchus
Mammalia

D. A- Neophron, Aves, B- Struthio Aves, C- Ornithorhynchus, Mammalia

Answer: D

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1114.  In which phylum A, B and C are found

- A. Sponges, Aschelminthes, Platyhelminthes respectively
- B. Aschelminthes, Platyhelminthes, Annelids respectively
- C. Platyhelminthes, Annelids, Aschelminthes respectively
- D. Annelids, Aschelminthes, Platyhelminthes respectively

Answer: D



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1115. The given figure shows the germs layer. The animals having structures shown in the figure are respectively known as



- A. Triploblastic, Triploblastic
- B. Diploblastic, Diploblastic

C. Triploblastic, Diploblastic

D. Diploblastic, Triploblastic

Answer: D



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1116. Identify the symmetry of animals A and B respectively



A. Radial, Radial

B. Bilateral, Bilateral

C. Radial, Bilateral

D. Bilateral, Asymmetrical

Answer: C



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1117. Select the Taxon mentioned that represents both marine and fresh water species

- A. Cephalochordata
- B. Cnidaria
- C. Echinoderms
- D. Ctenophora

Answer: B



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1118. Given below is the representation of the extent of global diversity of invertebrates. What groups the four portions (A-D) represent respectively



- A. A Molluscs B other animal groups C Crustaceans D Insects
- B. A Insects B Molluscs C Crustaceans D Other animal groups

- C. A B C D
Insects Crustaceans Other animal groups Molluscs
- D. A B C D
Crustaceans Insects Molluscs Other animal group

Answer: B

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1119. Which of the following characteristics is mainly responsible for diversification of insects of land

- A. Bilateral symmetry
- B. Exoskeleton
- C. Eyes
- D. Segmentation

Answer: B

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1120. Which of the following characteristic features always holds true for the corresponding group of animals

- (a) Cartilaginous endoskeleton Chondrichthyes
- (b) Viviparous Mammals
- (c) Possess a mouth with an upper and a lower jaw Chordates
- (d) 3- chambered heart with one incompletely divided ventricle Reptiles

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1121. Birds and mammals share one of the following characteristics as a common feature.

- A. Ossified endoskeleton
- B. Breathing using lungs
- C. Viviparity
- D. Warm blooded nature

Answer: C

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1122. Chitin is chemically a polymer of or The chitinous exoskeleton of arthropods is formed by the polymerisation of

- A. N- acetyl gluconic acid
- B. N- acetyl glucosamine
- C. N- acetyl muramic acid
- D. None of these

Answer: B



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1123. Which of the following statements (s) is/are correct about *Macropus* spp

- A. They are metatherian mammals
- B. They are only found in Austria
- C. They have true placenta

D.

Answer: A::D



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1124. Which of the following statements (s) is/are correct about *Macropus* spp

- A. Absence of notochord
- B. Ventral tubular nerve cord
- C. Pharynx with gill slits
- D.

Answer: C



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1125. Which of the following statements (s) is/are correct about *Macropus* spp

- A. Seals, Dolphins, Sharks
- B. Dolphins, Seals, Trygon
- C. Whales, Dolphins, Seals
- D.

Answer: C



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1126. Which of the following statements (s) is/are correct about *Macropus* spp

- A. *Macropus*
- B. *Chelone*
- C. *Camelus*

D.

Answer: B



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1127. Assertion : Sponges have tissue level of roganization

Reason : Songes are multicellular

- A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion
- B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion
- C. If the assertion is true but the reason is false
- D. IF the assertion is false but reason is true

Answer: D



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1128. Assertion : In mollusca, circulatory system is of closed type

Reason : The blood of mollusca contains haemoglobin

- A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion
- B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion
- C. If the assertion is true but the reason is false
- D. If both the assertion and reason are false

Answer: D



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1129. Assertion : Leucosolenia shows ascon type of canal system

Reason : In Leucosolenia water passes through ostia → spongocoel
→ osculum

- A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion
- B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion
- C. If the assertion is true but the reason is false
- D. If both the assertion and reason are false

Answer: A



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1130. Assertion : Sponges do not show any animal nature.

Reason : Sponges are sessile with no apparent way of capturing food or eliminating water

- A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion

B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion

C. If the assertion is true but the reason is false

D. IF the assertion is false but reason is true

Answer: D

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1131. Assertion : The duck-billed Platypus and the spiny anteater, both are egg-laying animals yet they are grouped under mammals.

Reason : Both of them have seven cervical vertebrae and 12 pairs of cranial nerves.

A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion

B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion

C. If the assertion is true but the reason is false

D. If both the assertion and reason are false

Answer: A



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1132. Assertion : Tapeworm, roundworm and pinworm are endoparasites of human intestine.

Reason : Improperly cooked food is the source of all intestinal infections.

A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion

B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion

C. If the assertion is true but the reason is false

D. If both the assertion and reason are false

Answer: B

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1133. Assertion : Coelenterates are known as Radiata.

Reason : Coelenterates are bilaterally symmetrical.

- A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion
- B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion
- C. If the assertion is true but the reason is false
- D. If both the assertion and reason are false

Answer: C

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1134. Assertion : Hydra is green coloured.

Reason : Green colour is due to the presence of chlorophyll in their body wall.

- A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion
- B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion
- C. If the assertion is true but the reason is false
- D. If both the assertion and reason are false

Answer: C



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1135. Assertion : Nerve cells in coelenterata have complete co-ordination in their body.

Reason : True nerve cells occur for the first time in coelenate.

- A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion
- B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion
- C. If the assertion is true but the reason is false
- D. If both the assertion and reason are false

Answer: A



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1136. Assertion : king cobra is adaptive to orienttal realm.

Reason : Wallace line prevents interaction of king cobra and kangaroo.

- A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion

B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion

C. If the assertion is true but the reason is false

D. If both the assertion and reason are false

Answer: B

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1137. Assertion : Bats and whales are classified as mammals

Reason : Bats and whales have four-chambered heart

A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion

B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion

C. If the assertion is true but the reason is false

D. If both the assertion and reason are false

Answer: B



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1138. Assertion : All birds, except the ones like koel (cuckoo) build nests for retiring and taking rest during night time (day time for nocturnal)

Reason : Koel lays its eggs in the nests of tailor bird.

- A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion
- B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion
- C. If the assertion is true but the reason is false
- D. If both the assertion and reason are false

Answer: B



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1139. Assertion : Obelia is dimorphic in nature

Reason : Obelia shows polyp and gonangia form

- A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion
- B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion
- C. If the assertion is true but the reason is false
- D. If both the assertion and reason are false

Answer: A



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1140. Assertion : Coelenterates shown alternation of generation.

Reason : In coelenterates, asexual generation is followed by sexual

generation

- A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion
- B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion
- C. If the assertion is true but the reason is false
- D. If both the assertion and reason are false

Answer: A



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1141. Assertion : Lateral line system is found in fishes and aquatic larval amphibians.

Reason : Lateral line system has receptor of sensory cells derived from ectoderm.

- A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion
- B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion
- C. If the assertion is true but the reason is false
- D. If both the assertion and reason are false

Answer: A



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1142. Assertion : *F.hepatica* undergoes both aerobic and anaerobic respiration.

Reason : *Fasciola* respire only in absence of oxygen

- A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion

- B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion
- C. If the assertion is true but the reason is false
- D. If both the assertion and reason are false

Answer: C

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1143. Assertion : Plasmodium vivax is responsible for malaria.

Reason : Malaria is caused by polluted water.

- A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion
- B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion
- C. If the assertion is true but the reason is false

D. If both the assertion and reason are false

Answer: C

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1144. Assertion : Birds have one ovary.

Reason : This reduces the body weight for flight.

- A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion
- B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion
- C. If the assertion is true but the reason is false
- D. If both the assertion and reason are false

Answer: A

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1145. Assertion : A shark can stay at a desired level in water without swimming.

Reason : It has a bouyancy-regulating organ called as the swim bladder.

- A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion
- B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion
- C. If the assertion is true but the reason is false
- D. If both the assertion and reason are false

Answer: D



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1146. Assertion : Sponges belong to Porifera

Reason : Sponges have canal system

- A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion
- B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion
- C. If the assertion is true but the reason is false
- D. If both the assertion and reason are false

Answer: B

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1147. Assertion : There is no chance of malaria to a man on the bite of male Anopheles mosquito

Reason : It carries a non-virulent strain of Plasmodium.

- A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion

B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion

C. If the assertion is true but the reason is false

D. If both the assertion and reason are false

Answer: C

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1148. Assertion : Cold blooded animals do not have fat layer.

Reason : Cold blooded animals use their fat for metabolic process during hibernation

A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion

B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion

C. If the assertion is true but the reason is false

D. If both the assertion and reason are false

Answer: B



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1149. Assertion : Acraniata is a group of organisms which do not have distinct cranium.

Reason : It includes small marine forms without head.

- A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion
- B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion
- C. If the assertion is true but the reason is false
- D. If both the assertion and reason are false

Answer: B



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1150. Assertion : The skeleton of sponges is made up of spicules.

Reason : Composition of spicules help in classification of sponges.

- A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion
- B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion
- C. If the assertion is true but the reason is false
- D. If both the assertion and reason are false

Answer: B



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1151. Assertion : Cephalization is advantageous to an animal

Reason : It improves the appearance of the animal

- A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion
- B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion
- C. If the assertion is true but the reason is false
- D. If both the assertion and reason are false

Answer: C



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1152. Assertion : Blood is colourless in the insects.

Reason : Insect blood has no role in O_2 transport

- A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion

B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion

C. If the assertion is true but the reason is false

D. If both the assertion and reason are false

Answer: B

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1153. Assertion : Lophodont dentition is also found in the mammals

Reason : Lophodont type of dentition is specially for herbivore mammals

A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion

B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion

C. If the assertion is true but the reason is false

D. If both the assertion and reason are false

Answer: B

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1154. Assertion : Calabar swelling is caused by eye worm

Reason : Loa loa is called the 'eye worm'

- A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion
- B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion
- C. If the assertion is true but the reason is false
- D. If both the assertion and reason are false

Answer: B

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1155. Assertion : Metamerism is the characteristic of annelida

Reason : Metamerism is one type of body segmentation

- A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion
- B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion
- C. If the assertion is true but the reason is false
- D. If both the assertion and reason are false

Answer: B



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1156. Assertion : Blood is red in annelida.

Reason : RBCs are absent in them

- A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion
- B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion
- C. If the assertion is true but the reason is false
- D. If both the assertion and reason are false

Answer: B



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1157. Assertion : Baleen is an example of aquatic adaption

Reason : Baleen is a balloon like structure present beneath the skin of mammals.

- A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion

B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion

C. If the assertion is true but the reason is false

D. If both the assertion and reason are false

Answer: C

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1158. Assertion : Spermathecae are the main part of reproductive system of annelida.

Reason : Spermathecae help in sperm transfer.

A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion

B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion

C. If the assertion is true but the reason is false

D. If both the assertion and reason are false

Answer: A



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1159. Assertion : Cutaneous glands help in regulation of body temperature.

Reason : Coprophagy is found in all mammals

- A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion
- B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion
- C. If the assertion is true but the reason is false
- D. If both the assertion and reason are false

Answer: C



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1160. Assertion : Both true ribs and floating ribs are present in mammals

Reason : By nature, stenal ribs are true ribs as, they possess all the characters of ribs.

- A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion
- B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion
- C. If the assertion is true but the reason is false
- D. If both the assertion and reason are false

Answer: B



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1161. Assertion : Cutaneous glands are help in regulation of body temperature.

Reason : Cutaneous glands are produced from stratum germinativum.

- A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion
- B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion
- C. If the assertion is true but the reason is false
- D. If both the assertion and reason are false

Answer: B



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1162. Assertion : Annelids are ureotelic

Reason : Only excretory product of annelids is uric acid.

- A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion
- B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion
- C. If the assertion is true but the reason is false
- D. If both the assertion and reason are false

Answer: C



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1163. Assertion : Open circulatory system is found in most arthropods.

Reason : Arthropods contain haemolymph which directly bathers internal tissues and organ.

- A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion

- B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion
- C. If the assertion is true but the reason is false
- D. If both the assertion and reason are false

Answer: A

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1164. Assertion : The birds can maintain a constant body temperature.

Reason : Birds possess feathers covering their body

- A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion
- B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion
- C. If the assertion is true but the reason is false

D. If both the assertion and reason are false

Answer: A



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1165. Assertion : Moulting or ecdysis occurs only in invertebrates.

Reason : In birds, moulting ususally taken an average time of six weeks.

- A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion
- B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion
- C. If the assertion is true but the reason is false
- D. IF the assertion is false but reason is true

Answer: D



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1166. Assertion : Birds have no mammary gland.

Reason : Pigeons secrete 'pigeon's milk'

- A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion
- B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion
- C. If the assertion is true but the reason is false
- D. If both the assertion and reason are false

Answer: B



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1167. Assertion : The fangs of snake are the maxillary teeth

Reason : The poison apparatus in snake consists of poison gland, ducts and fangs.

- A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion
- B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion
- C. If the assertion is true but the reason is false
- D. If both the assertion and reason are false

Answer: B



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1168. Assertion : In reptiles, hemipenes is present

Reason : Hemipenes is the combination of both ovary and penis.

- A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion

B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion

C. If the assertion is true but the reason is false

D. If both the assertion and reason are false

Answer: C

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1169. Assertion : Parental care is seen in amphibians.

Reason : Amphibians have taken several method to protect their eggs and offspring.

A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion

B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion

C. If the assertion is true but the reason is false

D. If both the assertion and reason are false

Answer: A



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1170. Assertion : In frogs, the entire skin serves as tangoreceptors.

Reason : Tactile organs and patches are present throughout the skin of frog.

- A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion
- B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion
- C. If the assertion is true but the reason is false
- D. If both the assertion and reason are false

Answer: A



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1171. Assertion : "Lymph heart" is present in frog.

Reason : Lymph in frog is circulated by lymph heart.

- A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion
- B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion
- C. If the assertion is true but the reason is false
- D. If both the assertion and reason are false

Answer: A



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1172. Assertion : In frog most of the absorption taken place in intestine.

Reason : The intestine in frog is the coiled structure.

- A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion
- B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion
- C. If the assertion is true but the reason is false
- D. If both the assertion and reason are false

Answer: B



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1173. Assertion : Amphibians are poikilothermal

Reason : Amphibians often undergoes summer sleep

- A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion

- B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion
- C. If the assertion is true but the reason is false
- D. If both the assertion and reason are false

Answer: A

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1174. Assertion : In fishes, heart is venous.

Reason : Only veins are present in the heart of fishes.

- A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion
- B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion
- C. If the assertion is true but the reason is false

D. If both the assertion and reason are false

Answer: C



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1175. Assertion : Ampullae of lorenzini are found beneath the skin of head region in fishes.

Reason : Ampullae of lorenzini acts as receptors.

- A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion
- B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion
- C. If the assertion is true but the reason is false
- D. If both the assertion and reason are false

Answer: B



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1176. Assertion : Lateral line canal is one of the main characteristics of fishes.

Reason : Lateral line canal is a system of sense organ concerned with life in water.

- A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion
- B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion
- C. If the assertion is true but the reason is false
- D. If both the assertion and reason are false

Answer: A



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1177. Assertion : Characters of cyclostomes show an advance over Amphioxus.

Reason : Cyclostomes have some degenerated characters.

- A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion
- B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion
- C. If the assertion is true but the reason is false
- D. If both the assertion and reason are false

Answer: B



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1178. Assertion : Amphioxus has a simple organization compared to vertebrates.

Reason : Many important craniate structure are lacking in Amphioxus.

- A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion
- B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion
- C. If the assertion is true but the reason is false
- D. If both the assertion and reason are false

Answer: A



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1179. Assertion : Glochidium larva rapidly disperse to a great distance

Reason : Glochidium is parasitic on fish.

- A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion

B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion

C. If the assertion is true but the reason is false

D. If both the assertion and reason are false

Answer: A

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1180. Assertion : Respiration in Amphioxus is done by both water and blood.

Reason : Amphioxus is aquatic and possesses blood

A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion

B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion

C. If the assertion is true but the reason is false

D. If both the assertion and reason are false

Answer: A



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1181. Assertion : Detorsion is the characteristic of mollusca.

Reason : Detorison is an arrested stage of torsion

- A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion
- B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion
- C. If the assertion is true but the reason is false
- D. If both the assertion and reason are false

Answer: B



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1182. Assertion : Tube feet are characteristic organs of echinodermata

Reason : Tube feet have an important role in respiration

- A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion
- B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion
- C. If the assertion is true but the reason is false
- D. If both the assertion and reason are false

Answer: C



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1183. Assertion : Endostyle is present at the pharyngeal groove of the midventral wall of the pharynx of Amphioxus.

Reason : Endostyle has an important role in respiration.

- A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion
- B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion
- C. If the assertion is true but the reason is false
- D. If both the assertion and reason are false

Answer: C



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1184. Assertion : Herdmania has digestion mechanism like higher group of animals.

Reason : Liver of Herdmania possess several enzymes required for digestion

- A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion

- B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion
- C. If the assertion is true but the reason is false
- D. If both the assertion and reason are false

Answer: A

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1185. Assertion : In *Balanoglossus* notochord is replaced by pygochord.

Reason : Pygochord supports abdominal region.

- A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion
- B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion
- C. If the assertion is true but the reason is false

D. If both the assertion and reason are false

Answer: D



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1186. Assertion : Water vascular system is the characteristic of echinoderms.

Reason : Main function of water vascular system is locomotion.

- A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion
- B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion
- C. If the assertion is true but the reason is false
- D. If both the assertion and reason are false

Answer: B



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1187. Assertion : Balanoglossus is often considered as "acom worms"

Reason : The word 'acom worm' has no meaning.

- A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion
- B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion
- C. If the assertion is true but the reason is false
- D. If both the assertion and reason are false

Answer: C



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1188. Select incorrect pair

- A. Porifera choanocytes
- B. Coelenterata- nematocysts
- C. Annelida- segmentation
- D. Monera- eukaryote

Answer: D

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1189. Which of the following is a chordata feature, not shared by the non chordates

- A. Metamerism
- B. Axiate organization
- C. Bilateral symmetry
- D. Pharyngeal gill slits

Answer: D



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1190. Which of the following invertebrates is a deuterostome and enterocoelous coelomate

- A. Pila
- B. Ascaris
- C. Aphrodite
- D. Asterias

Answer: D



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1191. Helicly coiled shaped X organ is found in

- A. Crustacea
- B. Porifera

C. Insecta

D. Amphibia

Answer: A



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1192. Scoliodon is called dogfish due to one of its following characteristics

A. Mouth

B. Gait

C. Carnivorous

D. Power of smell

Answer: D



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1193. The stages between larval moults in an insects are called

- A. Instar
- B. Morula
- C. Pupa
- D. Larva

Answer: A



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1194. Scales in chondrichthyes are

- A. Placoid
- B. Ganoid
- C. Cycloid
- D. Sesamoid

Answer: A



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1195. Which one of the animal of amphibia has no tongue

- A. Amphiuma
- B. Ichthyophis
- C. Necturus
- D. Salamander

Answer: B



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1196. Comb Plates are found in

- A. Amphiuma

B. Ichthyophis

C. Necturus

D. Salamander

Answer: D



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1197. Sharks and dogfishes differ from skates and rays by

A. Gill slits are ventrally placed

B. Head and trunk are widened considerably

C. Distinct demarcation between body and tail

D. Their pectorals fins distinctly marked off from cylindrical bodies

Answer: D



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1198. Which of the following is not found in birds

- A. Hind limb
- B. Fore limb
- C. Pelvic girdle
- D. Pectoral girdle

Answer: B



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1199. Biradial symmetry is found in

- A. Beroe
- B. Hydra
- C. Sponges
- D. Labeo

Answer: A



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1200. Stomata are not found in

- A. Hemichordates
- B. Urochordates
- C. Cephalochordates
- D. All of these

Answer: D



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1201. Which of the following group is Deuterotome

- A. Annelida, Arthropoda, Mollusca

B. Echinodermata, Hemichordata, Chordata

C. Annelida, Mollusca, Chordata

D. Arthropoda, Mollusca, Echinodermata

Answer: B



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1202. Discoblastula found in

A. Echinoderms and amphioxus

B. Reptiles, birds and fishes

C. Annelids, molluscs and nemertens

D. Insects

Answer: B



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1203. Which is not a bird

- A. Columba
- B. Testudo
- C. Pavo
- D. Struthio

Answer: B



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1204. The paralyzing toxin in nematocyst is

- A. Glutathione
- B. Heparin
- C. Histamine
- D. Hypnotoxin

Answer: D



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1205. Dropping of gravid proglottids by cestodes is called

- A. Apolysis
- B. Autotomy
- C. Paedogenesis
- D. Autophagy

Answer: A



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1206. *Calotes versicolor* belongs to class

- A. Osteichthyes

B. Amphibia

C. Reptiles

D. Aves

Answer: C



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1207. Chloragogen cells of earthworm are similar to the organ of vertebrate's

A. Liver

B. Lung

C. Kidney

D. Spleen

Answer: A



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1208. Interstitial fluid resembles

- A. Sea water
- B. Fresh water
- C. Ground water
- D. None of these

Answer: A



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1209. The modification of second pair of wings into halteres or balancers is the characteristic of

- A. Lepidoptera
- B. Orthoptera
- C. Diptera

D. Hemiptera

Answer: C



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1210. Mesoglea is seen in between

- A. Ectoderm and endoderm
- B. Ectoderm and mesoderm
- C. Mesoderm and endoderm
- D. Just below mesoderm

Answer: A



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1211. Flagellated collar cells (choanocytes) is the characteristics of

- A. Cnidaria
- B. Arthropoda
- C. Porifera
- D. None of these

Answer: C

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1212. In which one of the following groups an animals are hermaphrodite

- A. Hydea, Ascaris, Pheretima
- B. Hydra, Homo sapiens, Leech
- C. Tapeworm, Toad, Starfish
- D. Hydra, Leech, Tapeworm

Answer: D

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1213. Which of the following is a correct sequence of decreasing order of number of species ?

- A. Aves, pisces, reptiles, amphibians, mammals
- B. Pisces, aves, reptiles, mammals, amphibians
- C. Pisces, mammals, reptiles, amphibians, aves
- D. Amphibians, aves, pisces, mammals, reptiles

Answer: B



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1214. In Hydra, digestion is

- A. Extracellular
- B. Intracellular
- C. First extracellular and then intracellular

D. First intracellular and then extracellular

Answer: C



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1215. Infective stage of *Ascaris* is

A. Adult worm

B. Second juvenile

C. Fourth juvenile

D. Egg

Answer: B



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1216. How are annelida advanced over nematoda

- A. Closed circulation
- B. True coelom
- C. Metameric segmentation
- D. all of these

Answer: D

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1217. Two pairs of antennae are found in class

- A. Myriapoda
- B. Crustacea
- C. Insecta
- D. Arachnida

Answer: B

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1218. Which of the following represents correct order of evolution?

- A. Leucosolenia- Hydra- Amoeba- Ascaris
- B. Ascaris - Amoeba- Leucosolenia- Hydra
- C. Amoeba-Leucosolenia- Hydra- Ascaris
- D. None of these

Answer: C



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1219. which one of the following is correctly paired

- A. Trygon - Monitor
- B. Ichthyophis - Crow
- C. Carvus - Stingray

D. Corvus - Limbless amphibian

Answer:



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1220. Which is vivipary

A. Whale, rabbit

B. Frog, kangaroo

C. Snake, lizard

D. Cockroach, aves

Answer: A



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1221. Antennary glands of crustaceans are meant for

- A. Excretion
- B. Respiration
- C. Digestion
- D. Circulation

Answer: A

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1222. Pancreas is absent in which group of vertebrates

- A. Reptiles
- B. Cyclostomates
- C. Birds
- D. Mammals

Answer: B

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1223. Praying mantis is a good example of

- A. Social insects
- B. Camouflage
- C. Mullerian mimicry
- D. Warning colouration

Answer: B



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1224. Biradial symmetry and lack of cnidoblasts are the characteristics of

- A. Aurelia and Paramecium
- B. Hydra and starfish
- C. Starfish and sea anemone

D. Cteno phora and Beroe

Answer: D



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1225. What is common between parrot, platypus and kangaroo ?

- A. Homoeothermy
- B. Toothless jaws
- C. Functional post anal tail
- D. Ovoparity

Answer: A



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1226. Which one of the following is a matching pair of a body feature and the animal possessing it?

- A. Post anal tail - Octopus
- B. Ventral Central nervous system- Leech
- C. Pharyngeal gill slits absent in embryo - Chameleon
- D. Ventral heart- Scorpion

Answer: B



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1227. Axis vertebra is identified by

- A. Sigmoid notch
- B. Deltoid ridge
- C. Odontoid process
- D. Centrum

Answer: C



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1228. The most primitive vertebrates are

- A. Ostracoderms
- B. Cephalochordates
- C. Placoderms
- D. Cyclostomes

Answer: A



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1229. In anura group of frog, caudal vertebra fused to form

- A. Coccyx

B. Urostyle

C. Pygostyle

D. Prehensile tail

Answer: B



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1230. The extinct reptiles without temporal fossae belong to

A. Chelonia

B. Synaptosauria

C. Ichthyopterygia

D. Cotylosauria

Answer: D



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