



BIOLOGY

BOOKS - NIKITA PUBLICATION

Kingdom Animalia

Exercise

1. On the basis of organization, animals are grouped into.

A. Metazoa and Eumatozoa

B. Parazoa and Eumatozoa

C. Protozoa and Parazoa

D. None of these

Answer:



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2. An entrocoelomate invertebrate group is

A. Annelida

B. Arthropoda

C. Mollusca

D. Echinodermata

Answer:



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3. 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:



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4. The body symmetry found in snail is

A. Asymmetry

B. Spherical

C. Radial

D. Bilateral

Answer:



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5. In Non chordates, if nerve cord is present, it is

A. Dorsal in position

B. Ventral in position

C. Lateral in position

D. Dorsolateral in position

Answer:



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6. Body does not show any segmentation in

A. Frog

B. Cockroach

C. Earthworm

D. Pila

Answer:



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7. Blind sac body plan is shown by

A. Round worm

B. Flat worm

C. Ringworm

D. Cnidaria

Answer:



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8. True coelom appeared first in

A. Aschelminthes

B. Chordata

C. Echinodermata

D. Annelida

Answer:



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9. Which is common in earthworm cockroach and centipeds?

- A. haemocoel
- B. Metamerism
- C. Sexual dimorphism
- D. Cutious endoskeleton

Answer:



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10. How many germ layers are found in sponges.

A. one

B. two

C. three

D. absent

Answer:



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11. Which types of cells are found exclusively in sponges?

A. Amoebocytes

B. Pigment cells

C. Nerve cells

D. Choanocytes

Answer:



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12. Gemmules in sponges are helpful in

- A. Water circulation
- B. Digestion
- C. Sexual reproduction
- D. Asexula reproduction

Answer:



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13. First group of multicellular organism is

A. Cindaria

B. Porifera

C. Annelida

D. Arthropoda

Answer:



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14. One of the following is applicable to all sponges

A. Marine

B. Calcareous spicules

C. Radial symmetry

D. Power of regeneration

Answer:



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

- A. Liver fluke
- B. Tape worm
- C. Thread worm
- D. Sponges

Answer:



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16. One of the following is not sponge

A. Sycon

B. Spongilla

C. Corallium

D. Euspongia

Answer:



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17. Which of the following sponges is popular for beauty of skeleton.

A. Sycon

B. Euspongia

C. Spongilla

D. Euplectella

Answer:



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18. Budding as a normal mode of asexual reproduction is found in

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

Answer:



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19. Which of the following is boring sponge

A. Cliona

B. Chalina

C. Euplectella

D. Corals

Answer:



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20. Reproductive cells of sponges are formed from

- A. Pinacocytes
- B. Choanocytes
- C. Archaeocytes
- D. Trophocytes

Answer:



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21. Venus Flower Basket belongs to phylum

A. Porifera

B. Coelenterata

C. Mollusca

D. Echinodermata

Answer:



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22. In sponges, incurrent canal is lined by

A. Pinacocytes

B. Choanocytes

C. Porocytes

D. None of these

Answer:



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23. Excretory matter of sycon is

A. Urea

B. Ammonia

C. Uric acid

D. Creatine

Answer:



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24. Who first recognized that the sponges are animals?

A. Trembely

B. Aristotle

C. Linnaeus

D. Ellis

Answer:



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25. The generic name of glass rope sponge is

A. Spongilla

B. Euplectella

C. hyalonema

D. Scypha

Answer:



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26. The power of regeneration in sponges is due to

A. Thesocytes

B. Archaeocytes

C. Amoebocytes

D. Scleroblasts

Answer:



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27. Which of the following animals is coelenterate

A. Sea cow

B. Sea anemone

C. Sea horse

D. Sea cucumber

Answer:



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

A. Porifera

B. Platyheminthes

C. Coelenterata

D. Annelida

Answer:



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29. Precious Red coral used in Jewellery is

A. *Astraea*

B. *Fungia*

C. *Tubipora*

D. Corallium

Answer:



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30. Characteristic of cnidaria is

- A. Marine habitat
- B. Presence of tentacles
- C. Gastrovascular cavity
- D. Collar cells

Answer:



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31. Hydra is

- A. Fresh water and radially symmetrical
- B. Marine and radially symmetrical
- C. Fresh water and triploblastic
- D. Marine and acoelomate

Answer:



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32. Medusa form of coelenterates are

- A. Free swimming
- B. Umbrella shaped
- C. Cylindrical
- D. a and b

Answer:



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33. Specilized cells found in coelenterates are called

A. Choanocyst

B. Cnidocyst

C. Nematocyst

D. b and c

Answer:



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34. Mode of nutrition in cnidaria is

A. Saprophytic

B. herbivorous

C. Insectivorous

D. Carnivorous

Answer:



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35. Common name of fungi is

A. Mushroom coral

B. Red coral

C. Brain coral

D. Organ pipe coral

Answer:



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36. Jelly fish belongs to phylum

A. mollusea

B. Echinodermata

C. Coelenterata

D. Ctenophora

Answer:



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37. Who first discovered regeneration in Hydra?

A. Aristotle

B. Linnaeus

C. Darwin

D. Trambly

Answer:



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38. Portuguese man of war is

A. Pennatula

B. Coral

C. Physalia

D. Obelia

Answer:



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39. The study of coelenterates is known as

- A. Arthrology
- B. Splanchnology
- C. Cnidology
- D. Nidology

Answer:



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40. All ctenophores are

A. Fresh water

B. Marine

C. Estuarine

D. a and b

Answer:



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41. Paedogenesis is observed in

A. Ctenophores

B. Liver fluke

C. Ascaris

D. a and b

Answer:



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42. Tentacles of ctenophores contain

- A. Cindoblest
- B. Colloblasts
- C. Digestive glands
- D. All of these

Answer:



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43. Comb plates of ctenophores possess

A. Cilia for filter feeding

B. Cilia for locomotion

C. Teeth for crushing

D. Teeth for filtering

Answer:



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44. The animals like Beroe, Homiphora etc are belongs to

- A. Ctenophora
- B. Ctenidaria
- C. Porifera
- D. None of these

Answer:



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45. Flatworms resemble to coelentrates in

A. Body plan

B. Symmetry

C. Number of germ layers

D. Parastistism

Answer:



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46. Flame cells are excretory organs- of

A. Coelocntrates

B. Sponges

C. Plathyhelminthes

D. Echinodermata

Answer:



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47. Which of the following system is well developed in flat worms.

A. Digestive

B. Reproductive

C. Circulatory

D. Nervous

Answer:



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48. Flat worms are

A. Unisexual

B. Hermaphrodite

C. Monoecious

D. b and c

Answer:



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49. Pseudometamerism is found in

A. Fasciola

B. Taenia

C. Ascaris

D. Planaria

Answer:



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50. Bilateral symmetrical but acoelomate animal is

A. Liver fluke

B. Ascaris

C. Octopus

D. Jelly fish

Answer:



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51. Which of the following is a free living flatworm

A. Liver fluke

B. Taenia

C. Planaria

D. Echinococcus

Answer:



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52. Regeneration power can best be seen in

A. Planaria

B. Cockroach

C. Earthworm

D. Balanoglossus

Answer:



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53. One of the following, is not characteristic of all platyhelminthes.

A. Triploblastic

B. Acoelomate

C. Bilateral symmetry

D. Parasitism

Answer:



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54. The disease liver rot is caused by

A. Ascaris

B. Taenia solium

C. Tubellarians

D. Fasciola hepatica

Answer:



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55. Aschelminthes are commonly called as

- A. Ring worms
- B. Round worms
- C. Hook worms
- D. Flat worms

Answer:



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56. Round worms differ from flat worms in having a

- A. Pseudocoel
- B. Circular muscle layer
- C. Ciliary cuticle
- D. Suckers

Answer:



57. Ascaris is

- A. Ectoparasite
- B. Endoparasite
- C. Symbiont
- D. Free living

Answer:



58. Female Ascaris is identified on the basis of

A. A common cloacal aperature

B. Strainght posterior end

C. Presence of preanal and postanal
papillae

D. Presence of two spicules at posterior
end

Answer:



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59. Excretory structures in adult *Ascaris* are?

- A. Nephridia
- B. Renette cells
- C. Excretory canals
- D. malpighian tubules

Answer:



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60. Annelids are also called as

A. Round worms

B. ringed worms or segmented worms

C. Hook worms

D. Flat worms

Answer:



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61. The first true coelomate group of animals is

A. Nematohelminthes

B. Arthropoda

C. Annelida

D. Chrodata

Answer:



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62. Closed circulation is found in

A. Arthropoda

B. Annelida

C. Mollusca

D. Echinodermata

Answer:



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63. Which one is called as blood sucker

A. Earthworm

B. Leech

C. Nereis

D. Aphrodite

Answer:



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64. Saliva of leech contain a anticoagulant called

A. Fibrinogen

B. Hirudin

C. heparine

D. Prothrombin

Answer:



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65. Pickup mismatched

A. Nematohelminthehs-Ascaris

B. Annelida-Octopus

C. Cnidaria-Hydra

D. Arthropoda-House fly

Answer:



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66. Nereis belongs to

A. Mollusea

B. Echinodermata

C. Arthropoda

D. Annelida

Answer:



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67. The clitellum or cingulum in earthworm is present in

A. 12, 13 and 14 segments

B. 13, 14 and 15 segments

C. 14, 15 and 16 segments

D. 16, 17 and 18 segments

Answer:



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68. Which one is commonly called as sea mouse?

A. Aphrodite

B. peripatus

C. Terebella

D. Chaetopterus

Answer:



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69. The largest and most successful phyla of animals is

A. Echinodermata

B. Arthropoda

C. Coelenterata

D. Chordata

Answer:



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70. Which of the following phyla is omnipresent?

A. Arthropoda

B. Mollusca

C. Annelida

D. Echinodermata

Answer:



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71. Ecdysis is shown by

A. Sponges

B. Cnidarian

C. Arthropods

D. Annelids

Answer:



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72. Mouth parts of Arthropods are meant for

A. Biting

B. Chewing

C. Sucking

D. All of these

Answer:



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73. Circulatory system of arthropods is

A. Open type

B. Closed type

C. Without blood cells

D. b and c

Answer:



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74. Excretory organs in Arthropoda are

A. Green glands

B. Malpighian tubules

C. a and b

D. Nephridia

Answer:



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75. Which is not a insect?

A. Housfly

B. Spider

C. Cockroach

D. Mosquito

Answer:



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76. Chitinous plates making the exoskeleton in arthropods are called

- A. Tergites
- B. Sternites
- C. Pleurites
- D. Sclerites

Answer:



77. Colleterial glands are present in

- A. Female cockroach
- B. Male cockroach
- C. Both the sexes
- D. None of the two

Answer:



78. Which is not exclusive trait of arthropoda?

- A. Presence of wings
- B. Jointed appendages
- C. Haemocoel
- D. Chitinous exoskeleton

Answer:



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79. Entomology is the study of

A. Enteron

B. Enteric epithelium

C. Insects

D. Arachnids

Answer:



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80. An insect helping in pollination is

- A. *Drosophila*
- B. *Musca nebulosa*
- C. *Bombyx mori*
- D. *Apis dorsata*

Answer:



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81. An arthropod having unjointed legs is

A. Limules

B. Peripatus

C. Eupagurus

D. Milliapedes

Answer:



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82. Which of the following is a secretion of insect?

A. Pearl

B. Honey

C. Lac

D. Coral

Answer:



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83. Which of the following set includes pathogenic arthropods?

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

B. Crab, culex, spider

C. Anopheles, culex, cray fish

D. Silver- fish, housefly, sand fly

Answer:



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84. The term mollusca is referred to

- A. Shelled animals
- B. Aquatic animals
- C. Soft bodies animals
- D. Mantle bearers

Answer:



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85. Which of the following is derived from Latin word?

A. Porifera

B. Annelida

C. Mollusca

D. All of these

Answer:



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86. Molluscs are mostly bilateral symmetrical except

A. Sepia

B. Chiton

C. Unio

D. Pila

Answer:



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87. The shell found in most of the mollusca is secreted by

A. Food

B. Head

C. Mantle

D. None of these

Answer:



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88. Aquatic mollusca has respiratory organs called

A. Gills

B. Cnidaria

C. Ctenidia

D. Radula

Answer:



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89. In mollusca circulatory system is open type except

A. Snail

B. Dentalium

C. Chiton

D. Sepia

Answer:



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90. Kidney like excretory organs of mollusca are called

A. Osphradia

B. Ctenida

C. Organs of Bojanus

D. malpighian tubules

Answer:



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91. Tusk shell is the common name of

A. Chiton

B. Dentalium

C. Octopus

D. Pila

Answer:



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92. In which of the following groups trochophore larva occurs

- A. Annelida and porifera
- B. Coclenterata and Annelida
- C. Mollusca and coelenterate
- D. Annelida and Mollusca

Answer:



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93. Cuttle fish is a member of

A. Mollusca

B. Echinodermata

C. Pisces

D. Amphibia

Answer:



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94. Study of mollusca is called

A. Malacology

B. Conchology

C. Mammology

D. Mastology

Answer:



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95. The most primitive mollusc is

A. Patella

B. Neopilina

C. Chiton

D. Dentalium

Answer:



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96. Bilaterally symmetrical and acoelomate animals are exemplified by

A. Aschelminthes

B. Annelida

C. Ctenophora

D. Platyhelminthes

Answer:



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97. Which of the following statements are true for the phylum-Chordata ?

A. In Urochordata notochord extends from head to tail and it is present throughout their life.

B. In Vertebrata notochord is present during the embryonic period-only.

C. Central nervous system is dorsal and hollow.

D. Chordata is divided into 3 subphyla :
Hemichordata, Tunicata and
Cephalochordata.

Answer:



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98. Which, is the important site of formation of glycoproteins and glycolipids in eukaryotic cells?

- A. Golgi bodies
- B. Polysomes
- C. Endoplasmic reticulum
- D. Peroxisomes

Answer:



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99. Match the following columns and select the correct option.

Column - I**Column - II**

- | | |
|---|----------------------|
| i) Gregarious,
polyphagous pest | p) <i>Asterias</i> |
| ii) Adult with radial
symmetry and
larva with bilateral
symmetry | q) Scorpion |
| iii) Book lungs | r) <i>Ctenoplana</i> |
| iv) Bioluminescence | s) <i>Locusta</i> |

'i'

'ii'

'iii'

'iv'

a) r

q

p

s

b) q

p

r

s

c) p

r

q

s

d) s

p

q

r

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100. Which of the following belongs to a minor phylum.

A. Comb jelly

B. Jelly fish

C. Herdmania

D. Salpa

Answer:



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101. Select the animal having venous heart.

A. Crocodile

B. Salamander

C. Rohu

D. Toad

Answer:



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102. In ascaris,.....

A. Mesoglea is present

B. Endoderm is a discontinuous layer

C. Mesoderm is present in patches

D. Body cavity is absent

Answer:



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103. Which of the following is incorrect in case of birds?

A. Presence of teeth

B. Presence of scales

C. Nucleated RBCs

D. Hollow bones

Answer:



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104. Chitinous exoskeleton is a characteristic of.....

A. Dentalium

B. Antedon

C. Millipede

D. Sea urchin

Answer:



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105. In some animal groups, the body is formed divided into compartments with at least some organs repeated. This characteristic feature is named.

A. Segmentation

B. Metamerism

C. Metagenesis

D. Metamorphosis

Answer:



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106. Given below are types of cells presents in some animals. Each one is specialized to perform a single specific function except.

A. Choanocytes

B. Interstitial cells

C. Gastrodermal cells

D. Nematocytes

Answer:



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107. 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. Lizards, Mammals, Birds

Answer:



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108. Which of the following pairs of animals has non glandular skin.

A. sparrow and Frog

B. Chameleon and Turtle

C. Frog and Pigeon

D. Crocodile and Tiger

Answer:



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109. Birds and mammals share one of the following characteristics as a common feature.

A. Pigment skin

B. Alimentary canal with some modification

C. Viviparity

D. Warm blood nature

Answer:



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110. 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

D. Silkworm, Tapeworm, Earthworm

Answer:



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111. 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:



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112. 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:



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113. What one of the following is oviparous?

A. Platypus

B. flying fox (Bat)

C. Elephant

D. Whale

Answer:



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114. Which one of the following is not a poisonous snake?

A. Cobra

B. Viper

C. Python

D. Krait

Answer:



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115. Match the following list of animals with their level of organisation.

Division of Labour	Animal
A. Organ	i. <i>Pheritima</i>
B. Cellular aggregate level	ii. <i>Fasciola</i>
C. Tissue level	iii. <i>Spongilla</i>
D. Organ system level	iv. <i>Obelia</i>

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:



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116. 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:



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117. Match the 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 Comb plates
D. Arthropods	iv) Jointed appendages
E. Echinodermata	v) Metameres

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

B. A-i, 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:



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118. Gemmules in sponges is.

A. Internal bud

B. External bud

C. Lateral bud

D. Gamete

Answer:



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119. Hydra is coelenterates because it possesses.

A. Mesogloea

B. Nematocyst

C. Body cavity

D. Tentacles

Answer:



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120. Find out free livign fresh water flat worm.

A. Taenia

B. Fasciola

C. Planaria

D. Schistosoma

Answer:



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121. Aschelminthes includes.

A. Round worms and tapeworms.

B. Hook worms, filarial worms and tapeworms

C. Filarial worms, round worms and hook worm.

D. Round worms thread worms and flat worms

Answer:



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122. Suctorial mouth occurs in.

A. Nereis

B. Leech

C. Taenia

D. Cockroach

Answer:



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123. What is true about Nereis, Scorpion, cockroach and silver fish?

- A. they all have joined paired appendages
- B. they all possess dorsal heart
- C. none of them is aquatic

D. they all belongs to same phylum

Answer:



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124. Shell of mollusca is derived from

A. foot

B. mantle

C. visceral mass

D. buccal diverticulum

Answer:



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125. Radial symmetry is observed in

Platyhelminthes

Coelenterata

Aschelminthes

Echinodermata

A. II, III and IV

B. I, II and IV

C. II, III and I

D. II and IV

Answer:



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126. Salpa and Branchiostomata belongs to

A. Urochordata and cephalochordata

B. Urechordata and hemichordata

C. Cephalochordata and urochordata

D. Hemichordata and cephalochordata

Answer:



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127. Match the following columns and choose the correct option.

Column-I
A. Cyclostomata
B. Aves
C. Balanoglossus
D. Osteichthyes

Column-II
1. Hemichordata
2. Air sacs
3. Agnatha
4. Pisces

	A	B	C	D
a)	3	2	1	4
b)	4	3	2	1
c)	1	3	2	4
d)	2	1	3	4



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128. Limbless amphibians are called.

A. Paddle worms

B. Glow worms

C. Caecilian worms

D. Pin worms

Answer:



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129. Zoological name of common Indian Krait
is?

A. Vipiper russeli

B. Naja naja

C. Bungarus caeruleus

D. Ophiophagus hannah

Answer:



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130. Which one of the following is not the characteristic of frog?

A. The skin is moist and slimy

B. Each fore limb and hind limb has five
digits

C. Respiration by gills, skin and lungs

D. Absence of neck

Answer:



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131. Which of the following is a flightless bird?

A. Ostrich

B. Emu

C. Kiwi

D. All of these

Answer:



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132. The characteristics of birds without exception is

A. Omnivorous

B. Flying wings

C. Beak without teeth

D. Lay eggs with calcareous shell

Answer:



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133. Which character is not same is Aves and mammals?

A. Single systemic arch

B. Metanephric Kidney

C. Seven cervical vertebrae

D. Homeotherms

Answer:



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134. Correct set of animals of close-mammalia

is.

A. Lion, Hippopotamus, Penguin, Bat

B. Lion, Bat, Whale, Ostrich

C. Hippopotamus, Penguin, Whale,
Kangaroo

D. Whale, Bat, Kangaroo, Hippopotamus

Answer:



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135. Presence of collar cells is the characteristics of

A. Coelenterata

B. Porifera

C. Mollusca

D. Arthropoda

Answer:



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136. Most of annelids are bisexual except

A. Leech

B. Aphrodite

C. Neries

D. Tubifex

Answer:



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137. Aquatic mollusca has respiratory organs called

A. Gills

B. Cnidaria

C. Radula

D. Ctenidia

Answer:



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138. Pinna is absent in

A. Whale

B. Platypus

C. Seal

D. All of these

Answer:



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139. Which of the following part of the eye is characteristic of bird.

A. Pecten

B. Lens

C. Iris

D. Retina

Answer:



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140. Retrogressive metamorphosis is found in.

- A. Insect
- B. Amphibians
- C. Tunicates
- D. Lancelets

Answer:



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141. Characteristic feature of ctenophores is

A. Free swimming and marine

B. Exhibit bioluminescence

C. Absence of cnidoblast

D. Blind sac body plan

Answer:



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142. Venous flower basket is the dried skeleton

of

A. Euspongia

B. Euplectella

C. Spongilla

D. Leucosolenis

Answer:



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143. Match the following:

A. Cliona

i) Bowl sponge

B. Pheronema

ii) Bath sponge

C. Euspongia

iii) Bread crumb sponge

D. Halichondria

iv) Boring sponge

A. a-i, b-iv, c-iii, d-ii

B. a-ii, b-i, c-iv, d-iv

C. a-iv, b-i, c-ii, d-iii

D. a-iii, b-iii, c-i, d-iii

Answer:



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144. Which of the following is cnidarian?

A. Sea Urchin

B. Sea pen

C. Sea horse

D. All of these

Answer:



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145. Herdmania is called as chordate. Explain.

A. Porifera

B. Echinodermata

C. Mollusca

D. Cnidaria

Answer:



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146. Which of the following is viviparous fish?

A. Exocoetus

B. Gambusia

C. Clarias

D. Labeo

Answer:



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147. Which of the following has scaly exoskeleton and paired copulatory organ?

A. Tiger

B. Shark

C. Lizard

D. Ostrich

Answer:



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148. All mammals without any exception are characterised by

A. Viviparity and biconcave red blood cell

B. Extra abdominal testis and four chambered heart

C. Heterodont teeth and 12 pairs of cranial nerves

D. A muscular diaphragm and milk producing glands

Answer:



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Example

1. What is the basis of classification?



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2. Who proposed five kingdom system of classification.



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3. Why there is a need for classification?



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4. Which are the larval stages of porifera?



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5. Information about coral reef and sea fan.



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6. State parasitic adaptations in Liver fluke.



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7. Give examples of free living platyhelminth.



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8. What are the merits and demerits of Hermaphroditism?



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9. What are leeches used in Ayurveda?



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10. What is the role of earthworms in agriculture? What is vermicompost?



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11. Why is phylum arthropoda considered as most successful phylum?



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12. What do we know by parthenogenesis?



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13. What do we means by living fossil?



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14. How the bees produce honey?



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15. What will happen if arthropoda do not moult?



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16. Explain the term metameric segmentation.



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17. Give the characteristics of Arthropoda.



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18. Enlist harmful Arthropods.



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19. Why do molluscs have shells?



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20. Give salient features of phylum Echinodermata.



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21. Hemichordata is connecting link between non-chordata and chordata. Give reasons.



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22. Balanoglossus is a connecting link between Non-chordates and Chordates.



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23. differentiate between chordates and non-chordates.



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24. Give difference between:

Chordates and Non chordates



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25. Herdmania is called as chordate. Explain.



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26. Given characteristics of petromyzon.

Comment on its mode of nutrition.



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27. Differentiate between Chondrichthyes and Osteichthyes on the basis of scales and caudal fin.



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28. What is the lateral line system?



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29. Why Pisciian heart is called venous heart?



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30. Amphibians do not have exoskeleton. Give reason.



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31. Why are amphibians and reptiles called poikilothermic?





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32. Give adaptations in aves for flying.



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33. Aves and mammals are homotherms. Give reasons.



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34. How mammals differ from other groups of animals?



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35. Reptiles are known for having three chambered heart. Which animal shows a near four chambered condition in reptiles



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36. The circulatory system has evolved from open to closed type in Animal Kingdom. Which phylum can be called first to represents closed circulation?



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37. Pinna is part of external ear and it is found in mammals. Do aves and reptiles show external ear in any form?



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38. Fish and frog can respire in water. Can they respire through their skin? If yes, why do they have gills?



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39. Birds need to keep their body light to help in flying. Hence, they show presence of some organs only on one side. How their skeleton helps in reducing their weight?



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40. Cnidarians and Ctenophores are both diploblastic. Which other character do they have in common, which is not found in other phyla?



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41. Crab and Snail both have a protective covering. Is it made up of the same material?



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42. Sponge and sea star show calcareous protective material. Do they belong to the same Phylum?



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43. Fish and snake both have scales. How do these scales differ from each other?



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44. Lower Phyla like Arthropoda and Cnidarians show metamorphosis. It is also found in any class of Phylum Chordata?



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45. Identify the phylum in which adults exhibit radial symmetry and larva exhibit bilateral symmetry.



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46. What is metagenesis? Mention an example which exhibits this phenomenon.



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47. What is the role of feathers?



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48. Which group of chordates possess sucking and circular mouth without jaws?



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49. Give one example each for an animal possessing placoid scales and that with cycloid scales.



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50. Mention two modification in reptiles required for terrestrial mode of life.



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51. Mention one example each for animals with chitinous exoskeleton and those covered by a calcareous shell.



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52. What is the role of radula in molluscs?



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53. Name the animal, which exhibits the phenomenon of bioluminescence. Mention the phylum to which it belongs.



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54. Write one example each of the following in the space provided.

Cold blooded animal_____.



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55. Write one example each of the following in the space provided.

Warm blooded animal _____



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56. Write one example each of the following in the space provided.

Animal possessing dry and cornified skin _____.



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57. Write one example each of the following in the space provided.

Dioecious animal - -----



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58. Differentiate between a diploblastic and a triploblastic animal.



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59. Give an example of the following:

Round worm



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60. Give an example of the following:

Fish possessing poison sting



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61. Give an example of the following:

A limbless reptile/amphibian



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62. Give an example of the following:

An oviparous mammal



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63. Provide appropriate technical term in the space provided.

Blood filled cavity in arthropods_____.



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64. Provide appropriate technical term in the space provided.

Free floating form of cnidria_____.



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65. Provide appropriate technical term in the space provided.

Stinging organ of jelly fish _____.



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66. Provide appropriate technical term in the space provided.

Lateral appendages in aquatic annelids _____.



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67. Match the following:

Animals

- a) Octopus
- b) Crocodile
- c) Catla
- d) Ctenoplana

Locomotory Organ

- i) Limbs
- ii) Comb plates
- iii) Tentacles
- iv) Fins



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68. Draw neat labelled diagram.

Sycon



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69. Draw neat labelled diagram.

Aurelia



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70. Draw neat labelled diagram.

Amphioxus



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71. Draw neat labelled diagram.

Catla



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72. Draw neat labelled diagram.

Balanoglossus



[Watch Video Solution](#)

73. Draw neat labelled diagram.

Scoliodon



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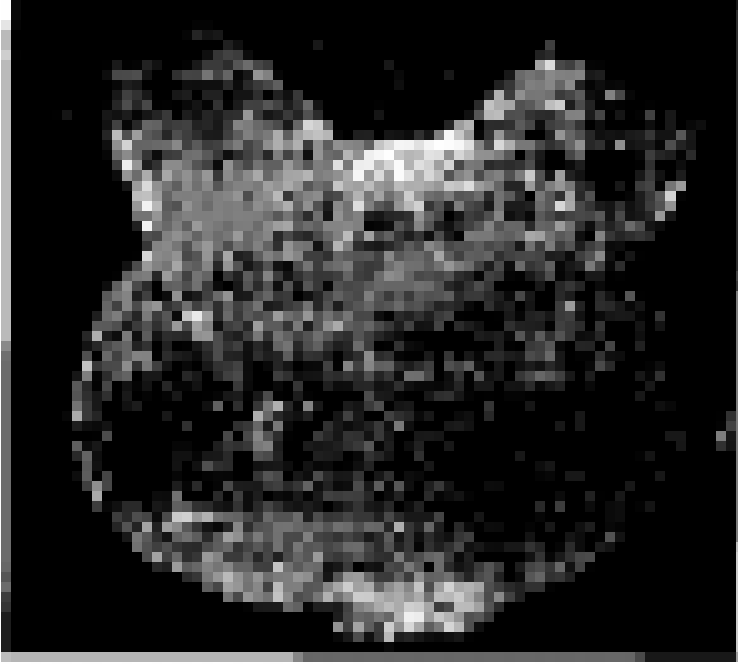
74. Match the following:

Phylum	Characters
i) Annelida	a. Tube feet
ii) Mollusca	b. Ostia
iii) Ctenophora	c. Radula
iv) Porifera	d. Parapodia
v) Echinodermata	e. Comb plates



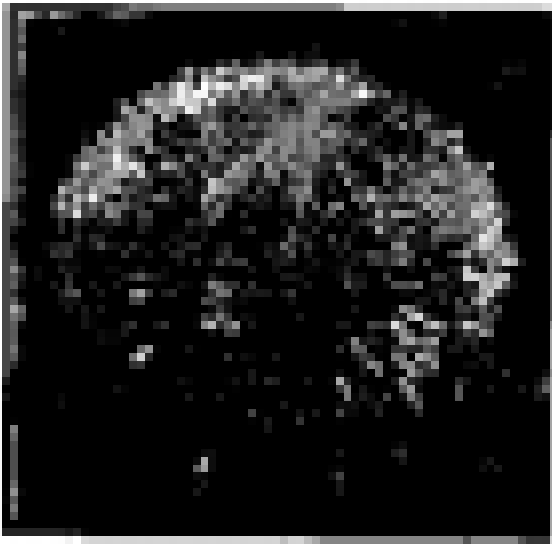
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75. Identify the animals given in picture and write feature of its phylum/class.



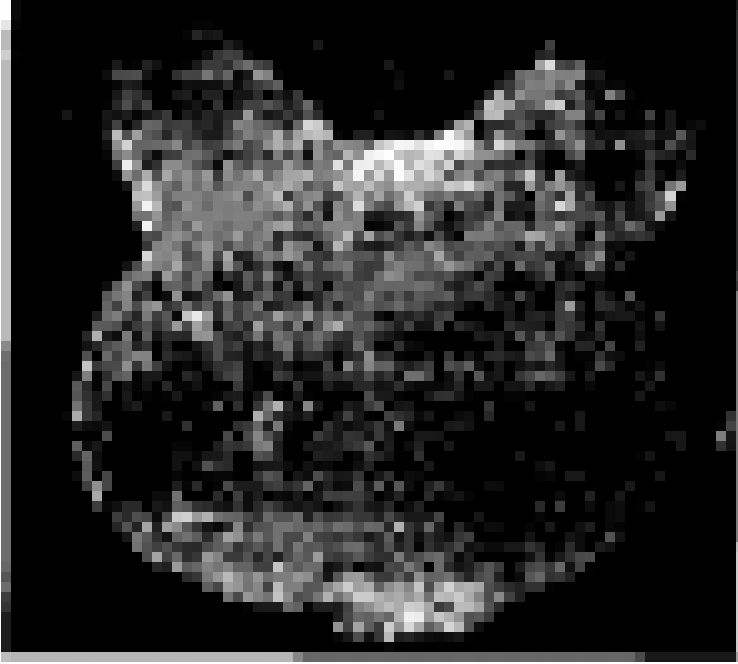
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76. Identify the animals given in picture and write feature of its phylum/class.



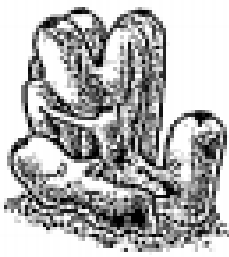
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77. Identify the animals given in picture and write feature of its phylum/class.

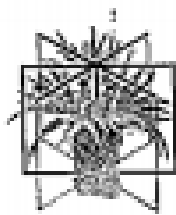


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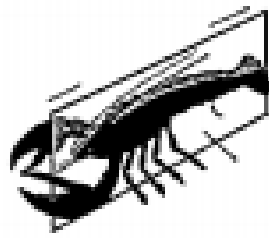
78. Observe and identify body symmetry of given animals.



Asymmetry



Radial



Bilateral

Types of Symmetry



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79. Differentiate between:

Open circulatory system and closed circulatory system.



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80. Differentiate between:

Oviparous and Viviparous characteristic.



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81. Differentiate between:

Direct development and Indirect development.



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82. Sort out the animals on the basis of their symmetry (radial or bilateral) coelenterates, ctenophores, annelids, arthropods, and echinoderms.



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83. There has been an increase in the number of chambers in heart during evolution of vertebrates. Give the name of the class of

vertebrates having two, three or four chambered heart.



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84. Fill up the blank spaces appropriately.

Phylum/Class	Excretory organ	Circulatory system	Respiratory organ
Arthropods			Lungs/gills/Tracheal system
	Nephredia	Closed	Skin/Parapodia
	Metanephridia	Open	
Amphibia		Closed	Lungs



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85. Match the following:

a. Amphibia	i) Air bladder
b. Mammals	ii) Cartilaginous notochord
c. Chondrichthyes	iii) Mammary glands
d. Ostichthyes	iv) Pneumatic bones
e. Cyclostomata	v) Dual habitat
f. Aves	vi) sucking and circular mouth without jaws.



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86. Endoparasites are found inside the host body. Mention the special structures,

possessed by these and which enables them to survive in those conditions.



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87. Match the following and write correct choice in space provided.

Animal	Characteristic
a. Pila	i) Jointed appendages
b. Cockroach	ii) Perching
c. Asterias	iii) Water vascular system
d. Torpedo	iv) Electric organ
e. Parrot	v) Presence of shell
f. Dog fish	vi) Placoid scales



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88. Differentiate between:

Open circulatory system and closed circulatory system.



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89. Differentiate between:

Oviparous and Viviparous characteristic.



Watch Video Solution

90. Differentiate between:

Direct development and Indirect development.



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91. Differentiate between:

Acoelomate and Pseudocoelomate



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92. Differentiate between:

Notochord and Nerve chord



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93. Differentiate between:

Polyp and Medusa



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94. Give the characteristic features of the following citing one example of each

Chondrichthyes and ostichthyes



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95. Give the characteristic features of the following citing one example of each
Urochordata and cephalochordata



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96. Aves and Mammalia



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97. Mention two similarities between

A frog and crocodile.



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98. Mention two similarities between

A turtle and pila.



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99. Name

A limbless animal



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100. Name

A cold blooded animal



Watch Video Solution

101. Name

A warm blooded animal



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**102. Write one example each of the following
in the space provided.**

Animal possessing dry and cornified
skin_____.



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103. Name

An animal having canal system and spicules



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104. Name

An animal with cnidoblasts



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105. Give an example for each of the following:

A viviparous animal



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106. Give an example of the following:

Fish possessing poison sting



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107. Give an example for each of the following:

A fish possessing an electric organ



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108. Give an example for each of the following:

An organ which regulates buoyancy



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109. Give an example for each of the following:

Animal, which exhibits alternation of generation



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110. Give an example for each of the following:

Oviparous animal with mammary gland.



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111. Excretory organs of different animals are given below. Choose, correctly .

Animal	Excretory organ/unit
a. Balanoglossus	i. Metanephridia
b. Leech	ii. Nephridia
c. Locust	iii. Flame cells
d. Liver fluke	iv. Absent
e. Sea urchin	v. Malpighian tubule
f. Pila	vi. Proboscis gland



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112. differentiate between chordates and non-chordates.



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113. What is the relationship between germinal, layers and the formation of body cavity in case of coelomate, acoelomates and pseudocoelomates?



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114. Comment upon the habitats and external features of animals belonging to class, amphibia and reptilla.



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115. What are the difficulties that you would face in classification of animals, if common fundamental features are not taken into account?



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116. If you are given a specimen, what are the steps that you would follow to classify it?



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117. How useful is the study of the nature of body cavity and coelom in the classification of animals?



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118. Distinguish between intracellular and extracellular digestion?



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119. What is the difference between direct and indirect development?



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120. What are Platyhelminthes?



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121. What are the reasons that you can think of for the arthropods to constitute the largest

group of the animal kingdom?



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122. Water vascular system is the characteristic of which group.



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123. Vertebrates are Chordates but all Chordates are not Vertebrates.



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124. How important is the presence of air bladder in Pisces?



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125. What are the modifications that are observed in birds that help them fly?



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126. Could the number of eggs or young ones produced by an oviparous and viviparous mother be equal? Why?



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127. Segmentation in the body is first observed in which of the following

Platyhelminthes

Aschelminthes

Annelida

Arthropoda



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128. Match the following:

a) Operculum	i) Ctenophora
b) Parapodia	ii) Mollusca
c) Scales	iii) Porifera
d) Comb plates	iv) Reptilia
e) Radula	v) Annelida
f) Hairs	vi) Cyclostomata and Chondrichthyes
g) Choanocytes	vii) Mammalia
h) Gill slits	viii) Osteichthyes



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129. Prepare a list of some animals that are found parasitic on human beings.



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