



## BIOLOGY

### BOOKS - A2Z BIOLOGY (HINGLISH)

#### ANIMAL KINGDOM

#### Section A Topicwise Questions Topic 1 Basis Of Classification

1. Segmentation is present in

- A. Annelida
- B. Arthropoda
- C. Chordata
- D. All of the above

**Answer: D**



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2. How may species of animals have been described till now?

- A. gt1.5 million
- B. 1.7-1.8 million
- C. gt 1.8 million
- D. gt1million

**Answer: D**

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3. Incomplete digestive system in found in

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

D. Aschelminthes

**Answer: C**



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4. In platyhelminthes, digestive system is incomplete because

- A. it absorbs food from general body surface
- B. it has suckers and hooks in parasitic form
- C. it has only one opening that serves as both mouth and anus
- D. All of the above

**Answer: C**



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5. Digestive system is first completed in which phylum

A. Arthropoda

B. Annelida

C. Platyhelminthes

D. Aschelminthes

**Answer: D**



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**6. Circulatory system is first completed in which phylum**

A. Arthropoda

B. Annelida

C. Platyhelminthes

D. Aschelminthes

**Answer: B**



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7. Respiratory system is first completed in which phylum

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

**Answer: A**



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8. Fill in the blanks

In \_\_\_ a \_\_\_, the cells are arranged as loose cell aggregates, i.e., they exhibit \_\_\_ b \_\_\_ of organization. Some division of labour (activities) occurs among the cells.

- A. a \_\_\_ Sponges, b \_\_\_ cellular level

B. a \_\_\_ Coelentrates, b \_\_\_ tissue level

C. a \_\_\_ Platyhelminthes, b \_\_\_ organ level

D. a \_\_\_ Coelentrates, b \_\_\_ cellular level.

**Answer: A**



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9. 



Match the columns I and II, and choose the correct combination from the options given.

A. a-1,b-3,c-2

B. a-3,b-2,c-1

C. a-2,b-1,c-3

D. a-2,b-3,c-1

**Answer: D**



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**10.** Read the statement carefully.

Notochord is a mesodermally derived rod-like structure formed on the ventral side during embryonic development in some animals (chordates).

Point out, if any misprinting is observed in this statement.

- A. Origin is not mesodermal
- B. Structure is not rod like
- C. Dorsal side instead of ventral side.
- D. No misprinting is observed in this statement.

**Answer: C**



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11. 

Match the column I and II, and list of animals with their level of organization and choose the correct sequence.

A. a-(s),b-(r),c-(p),d-(q)

B. a-s,b-q,c-r,d-p

C. a-q,b-s,c-r,d-p

D. a-q,b-r,c-s,d-p

**Answer: D**



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12. Open circulatory system occurs in

A. Earthworm

B. Snail

C. Cockroach



D. Both B and C

**Answer: D**



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**13.** Which of the following is/are acoelomate?

A. Echinodermata

B. Chordata

C. Platyhelminthes

D. Both A and C

**Answer: C**



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**14.** A body cavity which is lined by mesoderm is called

A. Haemocoel

B. Pseudocoel

C. Blastocoel

D. Coelom

**Answer: D**



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**15. Which of the following phylum is devoid of tissue?**

A. Porifera

B. Coelentrata

C. Annelida

D. Arthropoda

**Answer: A**



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16. Cold blooded animals are also called

- A. Ectotherms
- B. Endotherms
- C. Poikilothermic
- D. Both A and C

**Answer: D**



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17. In which group of animals, a closed circulatory system is present?

- A. Arthropoda
- B. Mollusca
- C. Hemichordata

D. Annelida

**Answer: D**



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**18.** Conversion of larva into adult is called

A. Metagenesis

B. Metastasis

C. Metamorphosis

D. Metamerism

**Answer: C**



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**19.** Fill in the blanks

In animals like \_\_a\_\_ organs have associated to form functional systems, each system concerned with a specific physiological function. This pattern is called \_\_b\_\_ of organization.

- A. a \_\_\_\_ Platyhelminthes, b \_\_\_\_ organ level
- B. a \_\_\_\_ Aschelminthes, b \_\_\_\_ organ level
- C. a \_\_\_\_ Annelids, b \_\_\_\_ organ system level
- D. a \_\_\_\_ Platyhelminthes, b \_\_\_\_ organ system level

**Answer: C**



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**20.** Radial symmetry is shown by

- A. Coelentrata
- B. Ctenophora

C. Echinodermata

D. All of the above

**Answer: D**



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21. Triploblastic animals primarily shows

A. Radial symmetry

B. Bilateral symmetry

C. Sexual dimorphism

D. True coelom

**Answer: B**



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22. Animals which regulate their body temperature are called warm blooded

- A. Homoiothermic
- B. Endothermic
- C. warm blooded
- D. all of the above

**Answer: D**



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23. Triploblastic organisation and bilateral symmetry starts from which phylum during evolution.

- A. Porifera
- B. Coelentrata
- C. Aschelminthes

D. Platyhelminthes

**Answer: D**



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**24.** Which one is first evolved in annelida?

A. Triploblastic development

B. Bilateral symmetry

C. Cephalisation

D. True coelom

**Answer: D**



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**25.** Heart to pump blood evolved for the first time in



A. Annelids

B. Artropods

C. Roundworms

D. Flatworms

**Answer: A**



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**26.** In some animal groups, the body is found divided into compartments with seriesl repetition of at least some organs. This characteristic feature is named as

A. Segmentation

B. Metamerism

C. Metagenesis

D. Metamorphosis

**Answer: B**



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27. Which one of the following statements is correct?

- A. Mesoglea is present in between ectoderm and endoderm in Obelia
- B. Radial symmetry is found in Asterias
- C. Fasciola is pseudocoelomate animal
- D. Taenia is a triploblastic animal

**Answer: C**



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28. 

Match the column I and II, and choose the correct combination from the options given.

A. a-1,b-2,c-3

B. a-3,b-2,c-1

C. a-3,b-1,c-2

D. a-2,b-3,c-1

**Answer: C**



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**29.** 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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**30.** True segmentation or metamerism means

- A. body is externally and internally divided into segments
- B. Each segments of body has serial repetition of at least some organs.
- C. Both A and B
- D. There is no repetition of any organ in successive segments.

**Answer: C**



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**31.** When body cavity is not lined by mesoderm, instead, the mesoderm is present as scattered pouches in between the ectoderm and endoderm.

Such a body cavity is called

- A. Coelom
- B. True coelom
- C. Pseudocoelom
- D. Acoelom

**Answer: C**



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**32.** In the following cell, each cell is specialised to perform a single specific function except

- A. Nematocytes
- B. Choanocytes
- C. Interstitial cells
- D. Gastrodermal cells

**Answer: C**



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**33.** Radial symmetry is found in

- A. Coelelerates
- B. Ctenophores
- C. Echinoderms
- D. All of the above

**Answer: D**



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**34.** The basic fundamental feature(s) that enable us to broadly classify the animal kingdom is/are

A. Level of organization and coelom

B. Cell organization and symmetry

C. Segmentation and notochord

D. All of the above

**Answer: D**



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## Section A Topicwise Questions Topic 2 Phylum Porifera Coelenterata Cnidaria Ctenophora

1. 

Recognise the figure and find out the correct matching

A. a-sexually, b-asexually

B. a-asexually, b-sexually

C. a-asexually, b-parthenogenetically

D. a-sexually, b-parthenogenetically

**Answer: B**



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2. Which of the following is sedentary or does not show locomotion?

A. sycon

B. Amoeba

C. Hydra

D. Physalia

**Answer: A**



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3. Which of the following sponge is called venus flower basket?



- A. Spongilla
- B. Euspongia
- C. Euplectella
- D. Cliona

**Answer: C**

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**4. In which of the following, polyp phase does not found ?**

- A. Hydra
- B. Physalia
- C. obelia
- D. aurelia

**Answer: D**

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5. Comb plates are found in

- A. Pleurobrachia
- B. Obelia (sea-fur)
- C. Physalia
- D. All of the above

**Answer: A**



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6. In sponges, spongocoel is lined by

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

D. Archaocytes

**Answer: A**



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7. 

Match the column I and II, and choose the correct combination from the options given.

A. a-6,b-4,c-3,d-1,e-5,f-2

B. a-5,b-4,c-1,d-3,e-6,f-2

C. a-5,b-3,c-1,d-4,e-2,f-6

D. a-5,b-4,c-3,d-1,e-6,f-2

**Answer: B**



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8. Correct flow of water current in sponges is

- A. Ostia-Osculum-Spongocoel-Outside
- B. Osculum-Spongocoel-Ostia-Outside
- C. Ostia-Spongocoel-Osculum-Outside
- D. Osculum-Ostia-Spongocoel-Outside

**Answer: C**



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9. If '1' represents the extracellular digestion, '2' represent the intracellular digestion and '3' represent both type, then for coelentrata, ctenophora and porifera, select the correct option

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

D. 3,2,2 respectively

**Answer: B**



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10. 

Match the column I, II and III and choose the correct combination from the options given

A. a-1-R,b-2-S

B. a-1-S,b-2-R

C. a-2-R,b-1-S

D. a-2-S,b-1-R

**Answer: C**



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### 11. Fill in the blanks

In sponges, fertilisation is a \_\_\_\_ and development is b \_\_\_\_ having a larval stage which is morphologically c \_\_\_\_ from the adult.

- A. a-Internal, b-Indirect, c-distinct
- B. a-Internal, b-Indirect, c-similar
- C. a-External, b-Direct, c-distinct
- D. a-External, b-Indirect, c-similar

**Answer: A**



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### 12. Read the following statements:

- (a). Polyp is sessile and cylindrical form like Adamsia
- (b). Medusa is umbrella shaped and free-living like Aurelia
- (c). Polyp produce medusae sexually and medusae form the polyp asexually (e.g., Obelia).

(d). Metagenesis is seen in jelly fish.

Find out the incorrect statements.

A. a,d

B. a,c

C. b,c

D. c,d

**Answer: D**



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**13.** Cnidoblasts are used for

A. Capture of the prey

B. Anchorage

C. Defense

D. All of the above

**Answer: D**



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**14.** Match the columns I and II, and chose the correct combination from the options gives.



A. a-4,b-2,c-1,d-3

B. a-4,b-1,c-3,d-2

C. a-1,b-4,c-2,d-3

D. a-4,b-1,c-2,d-3

**Answer: D**



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**15.** cold blooded animals are also called



- A. collar cells
- B. amoeboid cells
- C. Epithelia cells
- D. All of the above

**Answer: A**

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**16.** Diploblastic, radially symmetrical, marine animal showing bioluminescent property is/are

- A. Comb jelly
- B. Jelly fish
- C. Sea walnut
- D. Both A and C

**Answer: D**

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17. In porifera, the simplest canal system is

- A. Ascon type
- B. Sycon type
- C. Leucon type
- D. Rhagon type

**Answer: A**

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18. Looping and sommersaulting are the modes of locomotion found in

- A. sycon
- B. Leucosolenia
- C. Hydra

D. Physalia

**Answer: C**



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**19.** For life cycle of Obelia, most appropriate term used is

A. Metamerism

B. Metagenesis

C. alternation of generation

D. Both B and C

**Answer: B**



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

- A. Choanocytes
- B. Archaocytes
- C. Gastrodermal cells
- D. Nematocytes

**Answer: B**



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21. 

match the column I, II and III and choose the correct combination from the options given.

- A. a-2-K,b-3-L,c-1-J
- B. a-3,K,b-1-L,c-2-J

C. a-1-L,b-2-J,c-3-K

D. a-3-J,b-1-K, c-2-L

**Answer: B**



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22. Bioluminescent property is well marked in

A. coelentrates

B. ctenophores

C. Platyhelminthes

D. branchiostoma

**Answer: B**



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23. In sea-walnuts and comb-jellies the fertilization is

- A. External
- B. Internal
- C. Both A and B
- D. None of the above

**Answer: A**



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24. Metagenesis is seen in

- A. Aurelia
- B. Obelia
- C. Adamsia
- D. Both A and B

**Answer: B**



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**25. Fill I the blanks:**

Sponges reproduces a\_\_\_\_\_by fragmentation and b\_\_\_\_\_by formation fo gametes.

- A. a-sexually,b-asexually
- B. a-asexually, b-sexually
- C. a-vegetatively, b-asexually
- D. a-asexually, b-vegetatively

**Answer: B**



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**26. Corals are the member of**

A. Platyhelminthes

B. Porifera

C. Coelentrata

D. Chordata

**Answer: C**



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**Section A Topicwise Questions Topic 3 Phylum Platyhelminthes  
Aschelminthes Annelida**

1. Read the following statement carefully.

(a). Hooks and sucker are present in parasitic forms

b. Some of them absorb nutrients from the host directly through their body surface.

(c). Fertilisation is internal and development is through many larval



stages.

Here we are talking about:

A. Platyhelminthes

B. Aschelminthes

C. Annelids

D. Molluscs

**Answer: A**



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2. 

Match the column I, II and III and choose the correct combination from the options given.

A. a-1-K, b-3-K, c-2-L

B. a-1-L, b-3-L, c-2-K

C. a-2-L, b-1-K, c-3-K

D. a-1-K,b-3-L,c-2-K

**Answer: D**



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**3. Read the following statements carefully:**

- (a). They are triploblastic
- (b). Alimentary canal is complete with a well-developed muscular pharynx
- (c). An excretory tube removes body wastes from the body cavity through excretory pore
- (d). They are dioecious
- (e). Fertilisation is internal

Above features belong to which phylum?

- A. Annelida
- B. Arthropoda
- C. Aschelminthes
- D. Mollusca

**Answer: C**



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**4. True segmentation of body is first observed in**

A. Platyhelminthes

B. Aschelminthes

C. Annelida

D. Arthropoda

**Answer: C**



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**5. Annelid's neutral system consists of paired ganglia that are connected to the double ventral nerve cord by**

- A. Dorsal nerve
- B. Ventral nerve
- C. Lateral nerve
- D. Both A and B

**Answer: C**

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6. Select the incorrect statement about the phylum aschelminthes.

- A. Alimentary canal complete with well-developed muscular pharynx
- B. Sexes are separate (dioecious)
- C. Often females are longer than males
- D. Fertilization is external

**Answer: D**

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7. The member of Aschelminthes that is parasitic to plants is

- A. Ascaric (Ascariasis)
- B. Wucherreria (Filariasis)
- C. Meloidegyne
- D. Incognitia

**Answer: C**



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8. Which of the following is a free living non-pathogenic nematode?

- A. Meloidegyne incognitia
- B. Coenorhabditis elegans
- C. Both A and B

D. None of the above

**Answer: B**



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9. Excretory organ of planaria is

A. Flame cells/solenocytes

B. Nephridia

C. Renette cell

D. Metanephridia

**Answer: A**



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10. Which of the following is the distinguishing feature between *taenia solium* and *taenia saginata*?

- A. In *taenia saginata* hooks on scolex are not found
- B. In *taenia saginata* proglottids are not found
- C. In *taenia saginata* uterine branching is absent
- D. Both A and C

**Answer: D**



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11. Match the column I,II and III and choose the correct combination from the options given.



A. a-4-T,b-3-R,c-2-S,d-1-Q

B. a-2-S,b-3-Q,c-4-T,d-1-S

C. a-2-T,b-3-R,c-4-S,d-1-R

D. a-2-Q,b-3-T,c-4-R,d-1-S

**Answer: B**



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**12. Select the incorrect statement from the following**

A. fasciola is a triploblastic animal

B. Radial symmetry is found in Cucumaria

C. Mesoglea is present in Physalia

D. Taenia is a pseudocoelmate animal

**Answer: D**



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13. 

Match the column I, II and III and choose the correct combination from the options given.

A. a-3-S,b-4-R,c-1-T,d-2-T

B. a-3-S,b-4-R,c-2-T,d-1-T

C. a-3-R,b-4-S,c-2-T,d-1-T

D. a-4-Q,b-3-T,c-1-S,d-2-R

**Answer: A**



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14. First phylum that exhibit triploblastic body organization is

A. Coelentrata

B. Ctenophora

C. Platyhelminthes

D. Aschelminthes

**Answer: C**



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**15.** Animals having dorso-ventrally flattened body are

A. Coelentrates

B. Ctenophores

C. Platyhelminthes

D. Aschelminthes

**Answer: C**



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**16.** Ascaris is characterized by

- A. Absence of true coelom but presence of metamerism
- B. Presence of neither true coelom nor metamerism
- C. Presence of true coelom but absence of metamerism
- D. Presence of true coelom and metamerism

**Answer: B**

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## Section A Topicwise Questions Topic 4 Phylum Arthropodia Mollusca Echinodermata

1. Which of the following is not correctly matched.?

- A. Gregarious pest-Locusta (locust)
- B. Living fossil-Limulus (king crab)
- C. Economically important insects-apis (honey bee), bombyx (silkworm)

D. Vectors-Mosquitoes (anopheles, Culex and aedes) and Lac insect (laccifer).

**Answer: D**



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**2. Fill in the blanks**

a. In round worm often males are K\_\_\_ than females

(b). Over L\_\_\_ of all the named species on earth are arthropods.

(c). Molluscs contains a file like rasping organ for M\_\_\_ called radula.

A. a-Longer,  $b - \frac{1}{3^{rd}}$ , c-locomotion

B. a-Longer,  $b - 2/3^{rd}$ , c-feeding

C. a-smaller,  $b - 2/3^{rd}$ , c-feeding

D. a-smaller,  $b - 1/3^{rd}$ , c-locomotion.

**Answer: C**



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3. 



Match the column I, II and III and choose the correct combination from the options given.

A. a-1-y,b-4-x,c-3-w,d-2-z

B. a-3-y,b-2-x,c-1-z,d-2-w

C. a-3-x,b-4-y,c-1-z,d-2-w

D. a-1-z,b-4-y,c-3-x,d-2-w

**Answer: C**



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4. The largest phylum of animalia is

A. Insecta

B. Mollusca

C. arthropoda

D. Chordata

**Answer: C**



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5. The most distinctive feature of echinoderms is the

A. Presence of endoskeleton of calcareous ossicles

B. Absence of excretory system

C. Presence of water vascular system

D. All of the above

**Answer: C**



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6. Which is/are sanguivorous?

- A. Male cockroach
- B. Leech
- C. Female mosquito
- D. Both B and C

**Answer: D**



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7. In molluscs, the general body cavity is

- A. Blastocoel
- B. Hydrocoel
- C. Haemocoel
- D. Pseudocoel

**Answer: C**



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**8.** Which one of the following genus of insects prefer to breed in clean water and their larvae lie parallel to the surface of water

A. Anopheles

B. culex

C. Aedes

D. Phlebotomus

**Answer: A**



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**9.** Which is associated with pearl formation ?



- A. Pecten
- B. Ostrea
- C. Nautilus
- D. Pinctada

**Answer: D**

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**10. Which one belongs to mollusca**

- A. Devil fish
- B. Dog fish
- C. Silver fish
- D. Jelly fish

**Answer: A**

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

- A. Mosquito
- B. Cyclops/prawn
- C. grass hopper
- D. cockroach

**Answer: B**



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12. Which of the following is correct matching

- A. Haemocoel-Prawn and pila
- B. Protonephridia-some rotifers
- C. Acoelomate-Hookworm

D. Both A and B

**Answer: D**



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13. 



Match the columns I and II and choose the correct combination from the options given?

A. a-3,b-4,c-1,d-5,e-2

B. a-4,b-3,c-2,d-5,e-1

C. a-3,b-4,c-1,d-2,e-5

D. a-5,b-1,c-3,d-4,e-2

**Answer: A**



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14. Phylum Mollusca can be distinguished from other invertebrates by the presence of

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

**Answer: C**



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15. Which of the following is incorrect matching?

- A. Taenia, fasciola, dugesia, schistosoma - platyhelminthes
- B. Ascaris, wuchereria, Hookworm - Aschelminthes
- C. Pinworm, flatworm, liver fluke - platyhelminthes
- D. Eye worm, filaria worm, seatworm - aschelminthes

**Answer: C**



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**16. Excretory organs of arthropods are**

- A. Malpighian tubules
- B. Coxal glands
- C. Green glands or antennal glands
- D. All of the above

**Answer: D**



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**17. Which one is correctly matched?**

- A. Scorpion, spider, cockroach-ventral solid central nervous system.

- B. Cockroach, locust, taenia-Metameric segmentation.
- C. Liverfluke, sea anemone, sea cucumber-bilateral symmetry
- D. centipede,prawn, sea urchin-jointed appendages

**Answer: A**



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**18. Malpighian tubules are**

- A. Exretory organs of insects
- B. Exretory organs of annelids
- C. Respiratory organs of insect
- D. Respiratory organs of annelids

**Answer: A**



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19. Compound eyes occur in

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

**Answer: C**



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20. Pick up the matching pair of body feature and animal possessing it

- A. Ventral central nervous system \_\_\_ Leech
- B. Ventral heart \_\_\_ Scorpion
- C. Post anal tail \_\_\_ Octopus
- D. Pharyngeal gill slits absent in embryo \_\_\_ Chamelieon

**Answer: A**



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**21.** Two common characters found in centipede, Honey bee, silver fish, scorpion, cockroach and crab are

- A. Jointed legs and chitinous exoskeleton
- B. Green glands and tracheae
- C. Book lungs and antennae
- D. Compound eyes and anal cerci

**Answer: A**



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**22.** Which one of the following features is common in silver fish, 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 and tracheae

**Answer: C**

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

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

**Answer: B**

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24. Select the wrong statement:

- A. Prawn has two pairs of antennae
- B. Millepedes have two pairs of appendages in each segment of the body
- C. Nematocysts are characteristic of phylum Cnidaria
- D. Porifers are exclusively marine

**Answer: D**

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25. 

Match the column I, II and III and choose the correct combination from the options given.

A. a-3-R,b-1-S,c-2-Q

B. a-2-R,b-3-S,c-1-Q

C. a-3-S,b-1-Q,c-2-R

D. a-3-S,b-1-Q,c-2-R

**Answer: A**



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**26.** Which of the following do/does not belong(s) to a coelenterata?

A. sea cucumber

B. Sea lily

C. sea star

D. All of the above

**Answer: D**



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27. Excretory organ of Crab is

- A. Nephridium
- B. Green gland
- C. Coxal gland
- D. Malpighian tube

**Answer: B**



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

- A. Pheretima-Sexual dimorphism
- B. Musca-Complete metamorphosis
- C. Chamaeleon-Mimicry

D. Taenia-Polymorphism

**Answer: B**



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**29.** Ascaris and cockroach resemble each other in

- A. Pseudocoel
- B. Sexual dimorphism
- C. Nephridia
- D. Dorsal tubular nerve cord.

**Answer: B**



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**30.** If juvenile hormone is absent when silk worm moults, it will

A. moult into another larval stage

B. Moults into pupa

C. moults into adult

D. die.

**Answer: B**



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**31.** 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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32. Which one of the following statements is incorrect?

- A. In cockroaches and prawns, excretion of waste material occurs through malpighian tubules
- B. In ctenophores, locomotion is mediated by comb plates
- C. In fasciola, flame cells take part in excretion
- D. Earthworms are hermaphrodite and yet cross fertilization takes place among them.

**Answer: A**



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33. Eye of the molluscan group that resembles vertebrate eye is

- A. Bivalvia

B. Gastropoda

C. Pelecypoda

D. Cephalopoda

**Answer: D**



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34. 

Match the column I and II and choose the correct combination from the options given.

A. a-4,b-3,c-5,d-2,e-1

B. a-3,b-4,c-5,d-1,e-2

C. a-3,b-4,c-5,d-2,e-1

D. a-3,b-5,c-4,d-1,e-2

**Answer: B**





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35. Which one is a mixmatched pair?

A. *Apis indica* \_\_\_ Honey

B. *Laccifer* \_\_\_\_ lac

C. *Bombyx mori* \_\_\_ silk

D. *Pila globosa* \_\_\_\_\_ Pearl

**Answer: D**



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36. Which one of the following is matching set of a phylum and its three examples

A. Porifera-Spongilla, Euplectella, Pennatula

B. Cnidaria-Bonellia, Physalia, Aurelia

C. Plathelminthes-Planaria,Schistosoma, Enterobius

D. Mollusca-Loligo,teredo,octopus.

**Answer: D**



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**37.** Aristotle's lantern occurs in which class of echinodermata

A. Echinoidea

B. Asteroidea

C. Limulus

D. Lancelet

**Answer: A**



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38. Which of the following is living fossil

A. Laccifer

B. Loligo

C. Limulus

D. Lancelet

**Answer: C**



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39. 

Match the columns I and II, and choose the correct combination from the options given.

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

B. a-ii,b-iv,c-I,d-iii

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

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

**Answer: B**



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**40.** In Echinodermata, fertilization is usually

A. External

B. Internal

C. Both A and B

D. None of the above

**Answer: A**



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**41.** In echinoderms the excretory system is

A. Malpighian tubule

B. Nephridium

C. Proboscis gland

D. Absent

**Answer: D**



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**42.** Larva of the echinoderms is

A. sessile

B. Free-swimming

C. Both A and B

D. In echinoderms larva is not found/development is direct

**Answer: B**



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43. In Mollusca, sensory tentacles are present in

- A. Anterior head region
- B. Muscular foot
- C. Visceral hump
- D. Mantle cavity/space between hump and mantle

**Answer: A**



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44. 

Recognize the figure. This is a/an

- A. Living fossil
- B. Economically important insect
- C. Vector

D. Gregarious pest

**Answer: D**



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**45.** in arthropods the balancing organ is

A. Radula

B. Reticulocyst

C. Statocyst

D. Antennae

**Answer: C**



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**46.** Which is the incorrect stament?

- A. In ctenophores, locomotion is mediated by comb plates
- B. In fasciola, excretion is done by renette cells
- C. Earthworms are monoecious but cross fertilization take place among them
- D. In cockroaches and mosquitoes excretion of waste material occurs through malpighian tubules

**Answer: B**



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47. 

Match the column I and II and choose the correct combination from the options given.

- 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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**48.** In molluscs, gills (feather-like) have the

- A. Respiratory and circulatory functions
- B. Circulatory and excretory functions
- C. Excretory and respiratory functions
- D. Excretory, respiratory and circulatory functions

**Answer: C**



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**49.** In molluscs, body is covered with external skeleton made up of

- A. Spongin fibres
- B. Chitin
- C. Calcium carbonate
- D. Calcium silicate

**Answer: C**

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50. 

Fill in the blanks.

- A. a-subphylum b-chondrichthyes,c-osteichthyes, d-class
- B. a-subphylum,b-agnatha,c-gnathostomata,d-class
- C. a-superclass,b-agnatha,c-gnathostomata,d-class
- D. a-division, b-agnatha,c-gnathostomata,d-superclass.

**Answer: D**

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51. Which one of the following statements about all the four of Spongilla, leech, dolphin and penguin is correct ?

- A. penguin is homiothermic, while the remaining three are poikilothermic
- B. Leech is a fresh water form, while all other are marine
- C. Spongilla has special collar cells called choanocytes, which are not found in the remaining three
- D. all are bilaterally symmetrical animals

**Answer: C**

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52. Select the correct order of classification of *Rana tigrina* upto genus

A. Chordata, vertebrate, amphibia, gnathostomata,rana

B. chordata, vertebrate, ganathostomata,amphibia,rana

C. chordata,amphibia, gnathostamata,vertebrata,rana

D. Chordata,vertebrata,amphibia,tetrapoda,rana

**Answer: B**



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53. 

Match the column I and II and III and choose the correct combination from the option given.

A. a-1-P,b-2-Q,c-3-R,d-4-S

B. a-2-R,b-3-S,c-4-P,d-1-Q

C. a-1-P,b-2-R,c-3-Q,d-4-S

D. a-1-P,b-2-Q,c-3-S,d-4-R

**Answer: A**



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**54.** Read the following statements and find out the incorrect statements(s).

- A. Ascidia, salpa and doliolum belongs to phylum urochordata
- B. Branchiostoma (Amphioxus or Lancelet) belongs to phylum cephalochordata
- C. All chordates are vertebrates but all vertebrates are not chordates
- D. All of the above

**Answer: D**



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55.  ItBrgt Match the columns I and II, and choose the correct combination from the options given.

A. a-3,b-4,c-1,d-2,e-5

B. a-2,b-3,c-5,d-2,e-4

C. a-3,b-5,c-1,d-2,e-4

D. a-2,b-4,c-3,d-1,e-5

**Answer: A**



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56. Beside the mammals, vivipary is also found in some members of

A. Chondrichthyes

B. Osteichthyes

C. Amphibians

D. Aves

**Answer: A**



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**57.** Read the following statements and find out the incorrect statement.

- A. Dog fish has teeth that are modified placoid scales
- B. In fighting fish, gills are covered by operculum while in sting ray, gill cover is absent.
- C. Air bladder is present in saw fish which regulates buoyancy, while in angel fish, air bladder is absent
- D. Mouth of flying fish is terminal while that of great white shark is ventral.

**Answer: C**



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58. 

Match the column I, II and III and choose the correct combination from the options given.

A. a-2-H,b-5-G,c-6-I,d-1-I,e-4-H,f-3-G

B. a-1-I,b-5-H,c-6-I,d-2-M,e-4-G,f-3-H

C. a-2-G,b-3-G,c-1-I,d-6-M,e-5-H,f-4-G

D. a-2-I,b-5-I,c-6-G,d-1-M,e-4-H,f-3-G

**Answer: A**



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59. Which of the following animal does not belong to division Gnathostomata?

A. Hag fish

B. Dog fish



C. Labeo

D. All of the above

**Answer: A**



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**60.** The two more distantly related phyla are

A. Cnidaria and Platyhelminthes

B. Annelida and Arthropoda

C. Chordata and Echinodermata

D. Mollusca and Echinodermata

**Answer: B**



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61. Peripatus is a connecting link between :

- A. Annelida and Arthropoda
- B. Mollusca and Arthropoda
- C. Annelida and Mollusca
- D. Coelenterata and Platyhelminthes.

**Answer: A**



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62. Chordates differ from non - chordates in having

- A. Notochord
- B. Dorsal hollow nerve cord
- C. Dorsal hollow nerve cord
- D. Pharyngeal gill slits

**Answer: D**



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**63.** 

Match the column I and II, and choose the correct combination from the option given.

A. a-1,b-2,c-3,d-5,e-4

B. a-1,b-4,c-2,d-5,e-3

C. a-2,b-4,c-3,d-1,e-5

D. a-1,b-4,c-3,d-5,e-2

**Answer: D**



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**64.** One of the followings is a very unique feature of the mammalian body

- A. four chambered heart
- B. Presence of diaphragm
- C. Homeothermy
- D. Rib cage

**Answer: B**

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**65.** In chondrichthyes, claspers are seen on

- A. Pelvic fins of male
- B. Pelvic fins of female
- C. Operculum of both sexes
- D. Around jaws.

**Answer: A**

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66. Most poisonous fish is

- A. Clown fish
- B. Eel fish
- C. Sword fish
- D. Puffer fish

**Answer: D**



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67. Four chambered is characteristic of poikilotherm

- A. Psittacula
- B. Hemidactylus
- C. Pteropus

D. Crocodilus

**Answer: D**



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**68.** Which is not a homoiotherm

A. Aptenodytes

B. Testudo

C. Delphinus

D. Neophron

**Answer: B**



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**69.** A prehensile tail as in chameleon is an adaptation for

A. Swimming

B. Sliding

C. Grasping

D. Climbing

**Answer: C**



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**70. Which one is a reptile**

A. Toad

B. Salamander

C. Newt

D. Turtle

**Answer: D**



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71. Gorilla, chimpanzee, mankeys and Humans belong to the same

- A. species
- B. genus
- C. family
- D. order

**Answer: D**



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72. 

Match the columns I and II, and choose the correct combination from the options given.

- A. a-4,b-3,c-2,d-1
- B. a-3,b-4,c-1,d-2



C. a-4,b-3,c-1,d-2

D. a-3,b-4,c-2,d-1

**Answer: C**



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**73.** Notochord occurs all through the length of body and throughout life

in

A. Hemichordata

B. Urochordata

C. Cephalochordata

D. Vertebrata

**Answer: C**



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74. Which among the following is true?

- A. Chordates have ventral hollow nerve cord
- B. All vertebrates have open circulatory system
- C. All chordates are vertebrates but all vertebrates are not chordates
- D. all vertebrates are chordates.

**Answer: D**



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75. 



Match the columns I, II and III and choose the correct combination from the options given.

A. a-6-G,b-3-K,c-2-F,d-5-J

B. a-4-G,b-5-K,c-7-F,d-3-J

C. a-1-G,b-3-K,c-2-I,d-5-H

D. a-4-E,b-5-K,c-7-F,d-3-J

**Answer: B**



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**76.** The animal having notochord throughout life is

A. Fish

B. Amphioxus

C. Snake

D. Bird

**Answer: B**



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77. Proboscis gland in Balanoglossus is associated with

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

**Answer: C**



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78. Match the column I and II, and choose the correct combination from the options given.



- A. a-p,b-q,c-r,d-s,e-t
- B. a-q,b-r,c-s,d-p,e-t
- C. a-r,b-p,c-t,d-q,e-s

D. a-r,b-t,c-q,d-p,e-s

**Answer: D**



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**79.** Chondrichthyes is characterised by

- A. Ventral mouth
- B. Placoid scales
- C. Ventral mouth and ctenoid scales
- D. Both A and B

**Answer: D**



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**80.** Scientific name of 'rohu' is

A. *Catla catla*

B. *Anabas testudineus*

C. *Naja naja*

D. *Labeo rohita*

**Answer: D**



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**81.** Jawless vertebrates belong to the group

A. Agnatha

B. Gnathostomata

C. Lagomorpha

D. Prototheria

**Answer: A**



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**82.** Which one is not flightless bird:

- A. Struthio
- B. Emu
- C. Psittacula
- D. Cassowary

**Answer: C**



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**83.** Identify the aquatic mammals from following

- (i). Balaenoptera
- (ii). Equus
- (iii). Delphinus
- (iv). Pteropus
- (v). Felis

A. (i) and (iii) only

B. (v) only

C. (ii) and (iv) only

D. (iv) and (v) only

**Answer: A**

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**84.** Which one belongs to hemichordata:

A. Salpa

B. Balanoglossus

C. Petromyzon

D. Myxine

**Answer: B**

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85. 

Match the columns I and II, and choose the correct combination from the options given.

A. a-2,b-1,c-4,d-3

B. a-4,b-3,c-1,d-2

C. a-3,b-2,c-4,d-1

D. a-4,b-1,c-2,d-3

**Answer: D**



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86. Larval stages are found in

A. Vertebrates

B. Invertebrates

C. Both A and B

D. None of the above

**Answer: C**



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**87.** What is true about nereis, scorpion, cockroac and silver fish?

A. All possess dorsal heart

B. None is aquatic

C. They belong to same phylum

D. They have jointed paired appendages

**Answer: A**



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88. Organisms which give birth to young ones are called.

- A. Oviparous
- B. Viviparous
- C. Ovoviviparous
- D. Both B and C

**Answer: B**



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89. A larval stage occurs in the life history of all member of the group.

- A. Frog, Lizard and Cockroach
- B. Ascaris, Housefly and Man
- C. Housefly, Earthworm and Mosquito
- D. Buttery, Frog and Mosquito

**Answer: D**



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90. 



Match the columns I, II and III and choose the correct combination from the options given.

A. a-8-Q,b-4-X,c-7-U,d-9-P

B. a-3-Q,b-5-R,c-1-U,d-2-V

C. a-3-S,b-6-T,c-1-W,d-2-V

D. a-8-S,b-6-X,c-7-W,d-9-P

**Answer: C**



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

- A. Pigmented skin
- B. Pneumatic bones
- C. Viviparity
- D. Warm blooded

**Answer: D**



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92. A post-anal tail is found in

- A. Scorpion
- B. Earthworm
- C. Snake
- D. Lepisma

**Answer: C**



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**93.** Penguin occurs in

- A. Australia
- B. Antarctica
- C. Afric
- D. America

**Answer: B**



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**94.** What is common between orstrich, penguin and Kiwi.

- A. Running birds

B. Migratory birds

C. Flightless birds

D. Four toed birds.

**Answer: C**



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**95. Which is not detectable in birds?**

A. Pectoral girdle

B. Pelvic girdle

C. arms

D. Hind limbs

**Answer: C**



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96. All mammals, without any exception, are characterised by

- A. Viviparity and biconcave red blood cells
- B. Extra-abdominal testes and four chambered heart
- C. Heterodont teeth and 12 pairs of cranial nerves
- D. A muscular diaphragm and milk producing glands.

**Answer: D**



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97. State animal of rajasthan is

- A. Horse
- B. Camel
- C. Cow
- D. Ox



**Answer: B**



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**98.** The cervical vertebrae in humans is

- A. Same as in whale
- B. More than that in rabbit
- C. Double than that of horse
- D. Less than that in giraffe

**Answer: A**



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**99.** 

Match the columns I and II, and choose the correct combination from the option given.

A. a-2,b-1,c-4,d-3

B. a-4,b-3,c-1,d-2

C. a-3,b-4,c-2,d-1

D. a-3,b-4,c-4,d-2

**Answer: C**

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**100.** Lancelet is the member of

A. Hemichordata

B. Urochordata

C. Cephalochordata

D. Cyclostomata

**Answer: C**

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**101.** Ascidia belongs to the phylum

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

**Answer: D**



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**102.** 

Recognise the figure and find out the correct matching

- i. Nerve cord
- (ii). Notochord
- (iii). Post anal tail
- (iv). Gill slits.

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

B. a-iii,b-ii,c-I,d-iv

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

D. a-ii,b-I,c-iv,d-iii

**Answer: C**



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**103.** Read the following statements and find out the incorrect statement

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

B. In cephalochordates, notochord is present in head region only and is persistent throughout their life.

C. In vertebrates, notochord is replaced by vertebral column in adult.

D. All vertebrates are chordates but all chordates are not vertebrates.

**Answer: B**



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**104.** Proboscis glands are excretory organs of

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

**Answer: A**



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**105.** In which of the following vertebrates, notochord is persistent throughout the life?

- A. Cyclostomata
- B. Chondrichthyes

C. Osteichthyes

D. Agnatha

**Answer: B**



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106. 

match the column I, II and III and choose the correct combination from the option given.

A. a-3-K,b-3-L,c-2-M, d-1-N

B. a-4-M,b-3-L,c-2-N,d-1-K

C. a-3-L,b-4-M,c-2-K,d-1-N

D. a-3-L,b-4-K,c-2-M,d-1-N

**Answer: C**



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**107.** Salamandra belongs to which class

A. Tetrapoda

B. Amphibia

C. Reptilia

D. Pisces

**Answer: B**



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**108.** Which of the following is a flightless bird?

A. Psittacula

B. Struthio

C. Columbo

D. Neophron

**Answer: B**



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**109.** Phylum chordata is divided into how many subphyla?

- A. two
- B. three
- C. four
- D. Five

**Answer: B**



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**110.** All animals are marine in

- A. Ctenophora



B. Echinodermata

C. Protochordata

D. All of the above

**Answer: D**



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**111.** Read the following statements and find out the incorrect statement(s).

A. In chordates, heart is ventrally located

B. In non-chordates, CNS is ventrally located.

C. In echinoderms, anus is ventrally located.

D. None is incorrect/All correct.

**Answer: C**



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112. 

Match the column I and II, and choose the correct combination from the options given.

A. a-4,b-2,c-1,d-3

B. a-2,b-4,c-3,d-1

C. a-4,b-2,c-3,d-1

D. a-2,b-4,c-1,d-3

**Answer: B**



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113. Indirect development is found in

A. Mollusca

B. Echinodermata

C. Hemichordata

D. All of the above

**Answer: D**



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**114.** Birds and mammals share one of the common feature

A. Vivipary

B. Pigmented skin

C. Warm blooded

D. Alimentary canal with some modifications.

**Answer: C**



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115. Limbs are absent in

A. Ichthyophis

B. Reptiles

C. Snakes

D. both A and C

**Answer: D**



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116. 

Recognize the figure. This animal.

A. has jaw that are very powerful

B. has 4 pairs of gills

C. has persistent notochord

D. is a jawless vertebrate

**Answer: D**



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**117.** Which fish is kept in aquarium?

- A. Betta
- B. Exocoetus
- C. Pterophyllum
- D. both A and C

**Answer: D**



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**118.** Torpedo and Trygon are

- A. Cartilagenous fishes

B. Bony fishes

C. Fresh water fishes

D. Both A and C

**Answer: A**



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**119.** Which sets of animals belong to the same class

A. Bat, butterfly and birds

B. Monkey, man chimpanzee

C. Silkworm, tapeworm and Earthworm

D. Cuttlefish, silverfish, jellyfish, dogfish and starfish.

**Answer: B**



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120. Poison sting is found in the

- A. Pristis
- B. Carcharodon
- C. Torpedo
- D. Trygon

**Answer: D**



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121. 

Recognize the figure.

Select the correct statement about this animal.

- A. Fresh water chondrichthyes
- B. Marine Chondrichthyes
- C. Freshwater Osteichthyes

## D. Marine Osteichthyes

**Answer: C**



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122. 

Match the column I and II, and choose the correct combination from the option given.

A. b-v,a-iii,f-ii

B. c-l,e-v,d-vi

C. a-iv,d-vi,c-i

D. e-iii,b-iv,a-v

**Answer: D**



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**123.** In amphibians and reptiles, the ear is represented by

- A. cloaca
- B. Ear pinna
- C. Tympanic membrane
- D. Tympanum

**Answer: D**



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**124.** Under subphylum vertebrata how many classes are included?

- A. Two
- B. Three
- C. Four
- D. Seven

**Answer: D**



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**125.** Pisces is divided into how many classes

- A. Two
- B. three
- C. four
- D. seven

**Answer: A**



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**126.** The body is devoid of scales and paired fins are present in

- A. Cyclostomata

B. Chondrichthyes

C. Osteichthyes

D. None of the above

**Answer: A**



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**127.** Match the columns I, II and III and choose the correct combination from the options given.



A. a-1-L,b-2-M,c-4-N,d-3-K

B. a-4-L,b-3-K,c-1-N,d-2-M

C. a-4-N,b-3-K,c-1-L,d-2-M

D. Both B and C are correct

**Answer: D**



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128. Tetrapoda is a

- A. Division
- B. Super class
- C. Class
- D. order

**Answer: B**



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129. Most unique mammalian characteristic(s) is/are

- A. Presence of mammary glands
- B. Heart is four chambered
- C. Presence of lungs

D. All of the above

**Answer: A**



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**130.** In tetrapoda how many classes are included?

A. Two

B. Three

C. Four

D. Seven

**Answer: C**



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**131.** Which is a limbless amphibian?

A. Ichthyosaurs

B. Bufo

C. Snake

D. Ichthyophis

**Answer: D**



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**132.** In class 'Aves' the wings are the modification of

A. Forelimbs

B. Hindlimbs

C. Both A and B

D. Feathers

**Answer: A**



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133. Which of the following is a poisonous snake?

A. Naja

B. Krait

C. Viper

D. All of the above

**Answer: D**



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134. 

Match the column I, and II, and choose the correct combination from the options given.

A. a-1,b-4,c-2,d-3

B. a-4,b-1,c-3,d-2

C. a-1,b-4,c-3,d-2

D. a-4,b-1,c-2,d-3

**Answer: D**



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135. Cyclostomes are a \_\_\_ but migrate for spawning to b \_\_\_

A. a-marine, b-fresh water

B. a-Marine, b-Brackish water

C. a-Fresh water, b-Marine

D. a-Brackish water, b-fresh water

**Answer: A**



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**136.** Which is incorrect about non-chordates?

- A. Gill slits are absent
- B. Post anal tail is absent
- C. Heart is dorsal
- D. Central nervous system is ventral, hollow and double.

**Answer: D**



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**137.** Great white shark is a/an

- A. Cartilagenous fish
- B. Bony fish
- C. Aquatic mammal
- D. Terrestrial mammal.

**Answer: A**



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**138.** The class name reptilia refers to their

- A. Scales that are shed as skin cast
- B. Body is covered by dry and cornified skin
- C. Creeping or crawling mode of locomotion
- D. Poikilothermic nature.

**Answer: C**



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**139.** The name given below, select how many of these are mammals,

Whale, Dolphin, shark, seal, Hippopotamus, sea cow, Kangaroo.

A. Seven

B. Four

C. Five

D. Six

**Answer: D**



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**140.** Endoskeleton of aves is

A. Bony

B. Cartilaginous

C. Both A and B

D. None of the above

**Answer: A**



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**141.** Identify the group, that includes animals, all of which give birth to young ones directly.

- A. dolphin kangaroo, bat and cat
- B. Platypus, penguin, bat and hippopotamus
- C. Shrew, bat, kiwi and cat
- D. Lion, whale, ostrich and bat

**Answer: A**



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**142.** Agnatha is represented by which class

- A. Cyclostomata
- B. Chondrichthyes
- C. Osteichthyes

D. Both B and C

**Answer: A**



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**143.** Alligator is the member of

A. Pisces

B. Aves

C. Reptilia

D. Amphibia

**Answer: C**



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**144.** In osteichthyes, how many pairs of gills are present?

A. 1

B. 2

C. 4

D. 6

**Answer: C**



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**145. Balanoglossus is a member of**

A. Hemichordata

B. Urochordata

C. Tunicata

D. Cephalochordata

**Answer: A**



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146. 

Recognize the figure. This animal belongs to

- A. hemichordata
- B. Tunicata
- C. Cyclostomata
- D. Cephalochordata

**Answer: B**



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147. Claspers are present in

- A. Chondrichthyes (in pelvic fins)
- B. Chondrichthyes (in pectoral fins)
- C. Osteichthyes (in pelvic fins)

D. Osteichthyes (in pectoral fins)

**Answer: A**



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**148.** In cyclostomata, cranium and vertebral column is

A. Cartilaginous

B. Bony

C. Both A and B

D. Either A or B.

**Answer: A**



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149. Match the columns I, II and III and choose the correct combination from the options given.



- A. a-2-L,b-4-K,c-1-M,d-3-N
- B. a-2-M,b-4-K,c-1-M,d-3-N
- C. a-4-N,b-2-L,c-3-N,d-1-M
- D. Both A and B are correct

**Answer: D**



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150. All living members are ectoparasites on some fishes in

- A. Hemichordata
- B. Urochordata

C. Cyclostomata

D. Chondrichthyes

**Answer: C**



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151. 

Match the columns I and II, and choose the correct combination from the options given.

A. a-I, b-ii, c-iii, d-iv, e-v

B. a-iii, b-iv, c-I, d-ii, e-v

C. a-iii, b-I, c-ii, d-iv, e-v

D. a-iv, b-ii, c-iii, d-I, e-v

**Answer: C**



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**152.** Which of the following statements are true/false?

I. In torpedo, the electric organs are capable of generating strong electric shock.

II. Claspers are found in cartilaginous fishes.

III. Amphibian skin is moist and has thick scales.

IV. Birds are poikilothermous animals.

V. The most unique mammalian characteristic is the presence of milk producing mammanry glands by which the young ones are nourished.

A. I,II, and III and true, IV, V are false.

B. I, II, and V and true, III, IV are false.

C. I, III, and V and true, II, IV are false.

D. I, II and IV and true, III, V are false.

**Answer: B**



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**153.** Which one of the following groups of animals is correctly matched with its one characteristic feature without even a single exception?

- A. Chordata-possess a mouth provided with an upper and a lower jaw
- B. Chondrichthyes-Posses cartilaginous exoskeleton
- C. Mammalia-possess mammary glands
- D. Reptilia-Possess 3-chambered heart with one incompletely divided ventricle.

**Answer: C**



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**154.** Which one of the following does not have an excretory system?

- A. Myxine
- B. Carcharodon
- C. Balanoglossus

D. Ophiura

**Answer: D**



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155. 

Match the column I and II, and choose the correct combination from the options given.

A. a-3,b-4,c-2,d-1

B. a-4,b-3,c-2,d-1

C. a-4,b-4,c-2,d-1

D. Both A and C are correct

**Answer: D**



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156. Which of the following is the subphylum of petromyzon?

- A. Cyclostomata
- B. Agnatha
- C. Vertebrata
- D. Cephalochordata

**Answer: C**



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157. Which one of the following statements is totally wrong about the occurrence of notochord, while the other three are correct?

- A. It is present only in larval tail in ascidian
- B. It is replaced by a vertebral column in adult frog
- C. It is absent throughout life in macropus from the very beginning.
- D. It is present throughout life in amphioxus.

**Answer: C**



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## Section B Assertion Reasoning Questions

**1. Assertion:** Cnidarians exhibit two basic body forms. The polyp is sessile and umbrella shaped and medusa is free-swimming and cylindrical form.

**Reason:** Cnidarians have a central gastro-vascular cavity with a single opening, hypostome on mouth.

- A. IF both assertion and reason are true and the reason is the correct explanation of the assertion.
- B. If both assertion and reason are true but reason is not the correct explanation of the assertion.
- C. If assertion is true but reason is false.
- D. If both assertion and reason are false.

**Answer: D**



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2. Assertion: In flatworms, fertilisation is internal and development is through many larval stages.

Reason: Some parasitic flatworms absorb nutrients from the host directly through their body surface.

- A. IF both assertion and reason are true and the reason is the correct explanation of the assertion.
- B. If both assertion and reason are true but reason is not the correct explanation of the assertion.
- C. If assertion is true but reason is false.
- D. If both assertion and reason are false.

**Answer: B**



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3. Assertion: During the course of evolution, alimentary canal is first completed in aschelminthes, circulatory system in annelids, and respiratory system in arthropods.

Reason: In echinoderms, digestive system is complete with mouth on upper side and anus on the lower side.

- A. IF both assertion and reason are true and the reason is the correct explanation of the assertion.
- B. If both assertion and reason are true but reason is not the correct explanation of the assertion.
- C. If assertion is true but reason is false.
- D. If both assertion and reason are false.

**Answer: C**



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4. Assertion: In annelids, longitudinal and circular muscles help in locomotion.

Reason: Aquatic annelid like Nereis is monoecious, and possess lateral appendages, parapodia, which help in swimming.

A. IF both assertion and reason are true and the reason is the correct explanation of the assertion.

B. If both assertion and reason are true but reason is not the correct explanation of the assertion.

C. If assertion is true but reason is false.

D. If both assertion and reason are false.

**Answer: C**



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5. Assertion: Water vascular system of echinoderms helps in locomotion, capture and transport of food and respiration..

Reason: Echinoderms are spiny bodies animals in which development is indirect with free-swimming larva.

- A. IF both assertion and reason are true and the reason is the correct explanation of the assertion.
- B. If both assertion and reason are true but reason is not the correct explanation of the assertion.
- C. If assertion is true but reason is false.
- D. If both assertion and reason are false.

**Answer: B**



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6. Assertion: Hemichordata was earlier considered as subphylum under phylum chordata. But now it is placed as a separate phylum under non-chordata.

Reason: Hemichordates have open type of circulatory system and indirect development.

- A. If both assertion and reason are true and the reason is the correct explanation of the assertion.
- B. If both assertion and reason are true but reason is not the correct explanation of the assertion.
- C. If assertion is true but reason is false.
- D. If both assertion and reason are false.

**Answer: B**



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7. Assertion: Chondrichthyes swim constantly in water body to avoid sinking.

Reason: In chondrichthyes, air bladder is not found.

- A. IF both assertion and reason are true and the reason is the correct explanation of the assertion.
- B. If both assertion and reason are true but reason is not the correct explanation of the assertion.
- C. If assertion is true but reason is false.
- D. If both assertion and reason are false.

**Answer: A**



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**8.** Assertion: Birds and mammals are warm-blooded (homiothermous) animals.

Reason: Aves and mammals are able to maintain a constant body temperature.

- A. If both assertion and reason are true and the reason is the correct explanation of the assertion.

B. If both assertion and reason are true but reason is not the correct explanation of the assertion.

C. If assertion is true but reason is false.

D. If both assertion and reason are false.

**Answer: A**

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**9. Assertion :** Open circulatory system is found in most arthropods.

**Reason :** Arthropods contain haemolymph which directly bathes internal tissues and organ.

A. IF both assertion and reason are true and the reason is the correct explanation of the assertion.

B. If both assertion and reason are true but reason is not the correct explanation of the assertion.

C. If assertion is true but reason is false.

D. If both assertion and reason are false.

**Answer: A**



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**10.** Assertion : Sponges belong to Porifera

Reason : Sponges have canal system

- A. IF both assertion and reason are true and the reason is the correct explanation of the assertion.
- B. If both assertion and reason are true but reason is not the correct explanation of the assertion.
- C. If assertion is true but reason is false.
- D. If both assertion and reason are false.

**Answer: B**



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**11.** Assertion: The members of platyhelminthes are commonly called flatworms.

Reason: Platyhelminthes have dorso-ventrally flattened body.

- A. IF both assertion and reason are true and the reason is the correct explanation of the assertion.
- B. If both assertion and reason are true but reason is not the correct explanation of the assertion.
- C. If assertion is true but reason is false.
- D. If both assertion and reason are false.

**Answer: A**



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1. Read the following statements and find out the incorrect statement.

A. Mammalia-some of them have adapted to fly (pteropus) or live in water (whale, dolphin, seal, sea cow).

B. Aves-Skin is dry without glands except the oil gland at the base of the limb

C. Reptilia-Heart is usually three-chambered, but four-chambered in crocodiles.

D. Birds- The digestive tract has additional chambers, the crop and gizzard

**Answer: B**



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2. During embryonic development if mouth is formed first and anus is formed later, the condition is called

- A. Protostomia
- B. Deuterostomia
- C. both A and B
- D. None of the above

**Answer: A**

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**3. Which of the following is a pseudocoelomate?**

- A. Ascaris and Wuchereria
- B. Ancylostoma and Enterobius
- C. Dracunculus and loa-loa
- D. All of the above

**Answer: D**

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4. Which of the following is not a deuterostome?

- A. Sea star
- B. Sea urchin
- C. Sea fan
- D. Sand dollars

**Answer: C**



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5. Pentaradial symmetry occurs in

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

D. Annelida

**Answer: A**



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6. Bilaterally symmetrical deuterostome belongs to

A. Echinodermata

B. Arthropoda

C. Chordata

D. Annelida

**Answer: C**



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7. Which of the following group of animals do not belong to same division?

- A. Rohu, Toad, Shark, Krait, Vulture and Cat
- B. Dog, Crow, Tortoise, Frog, Katla and Torpedo
- C. Magur, Lamprey, Salamander, Alligator, Rat and Pigeon
- D. Kangaroo, Parrot, Cobra, Hyla, Betta and Pristis

**Answer: C**



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8. Read the following statements and find out the incorrect statement.

- A. Phylum chordata is divided into three subphyla, Urochordata, Cephalochordata and Vertebrata
- B. Subphyla-Urochordata and Cephalochordata are often referred to as protochordates and are exclusively marine.

C. Mammals have two pairs of limbs, adapted for walking, running, climbing, burrowing, swimming or flying.

D. Subphylum vertebrate divided into two divisions and six classes.

**Answer: D**



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9. Space between body wall and alimentary canal lined by mesoderm is called.

A. Haemocoel

B. Pseudocoelomate

C. coelom

D. Blastocoel

**Answer: C**



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10. Which of the following animals is unsegmented?

- A. Pheretima posthuma
- B. Grasshopper
- C. Lobster
- D. Fasciola/Dugesia/Flatworms

**Answer: D**



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11. 

Match the columns I and II, and choose the correct combination from the options given.

- A. a-2,b-1,c-2,d-2,e-1, f-1
- B. a-2,b-2,c-1,d-2,e-2,f-1

C. a-1,b-1,c-1,d-1,e-1,f-2

D. a-2,b-1,c-2,d-2,e-1,f-2

**Answer: A**



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**12.** Read the following statements and find out the incorrect statement.

A. A complete digestive system has two openings-mouth and anus

B. Animals which do not have notochord are called non-chordates

(Porifera to Echinodermata)

C. Porifers, cnidarians and ctenophores are mostly/Generally marine animals

D. Snakes and lizards shed their scales as skin cast

**Answer: C**



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13. Among the vertebrates, external fertilisation is seen in

- A. Chonderichthyes, osteichthyes and amphibians
- B. Chonderichthyes and amphibians
- C. Osterichthyes and amphibians
- D. Osteichthyes, amphibians and mammals

**Answer: C**



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14. Find out the incorrect match for body division

- A. Arthropoda-Head, thrax and abdomen
- B. Mollusca-Head, moscular foot and visceral hump
- C. Hemichordata-Proboscis, collar and trunk

D. Amphibia-Head,neck and trunk.

**Answer: D**



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**15.** A list of animals is given below, identify the animals with open circulatory system and choose the correct answer.

I. Ascidia

II. Cockroach

III. Earthworm

IV. Prawn

V. Silverfish

VI. Snail

VII. Balanoglossus.

A. II,IV and VI

B. I,II,IV and VI

C. III,IV,V and VII

D. II,IV,V and VI and VII

**Answer: D**



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**16.** Direct development is found in

- A. Osteichthyes, reptiles, aves and mammals
- B. Cyclostomes, amphibians, hemichordates and echinoderms
- C. Aschelminthes, arthropods, molluscs and platyhelminthes.
- D. Both A and C

**Answer: A**



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17. Which of the following is a common characteristic between echinoderms and chondrichthyes?

- A. Internal fertilisation
- B. Mouth is located ventrally
- C. Radial symmetry
- D. None of the above

**Answer: B**



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18. Read the following statements and find out the correct statement.

- a. Cnidoblasts are used for anchorage, defense and for the capture of prey
- b. The property of living organism to emit light is called bioluminescence
- c. Prifers, sea walnuts, platyhelminthes and earthworms are monoecious or hermaphrodite

- d. Aschelminthes, molluscs, echinoderms and hemichordates are dioecious or unisexual
- e. Vertebrates have ventral muscular heart, kidneys for excretion and osmoregulation and paired appendages (fins or limbs)

- A. Two
- B. Three
- C. Four
- D. Five

**Answer: D**



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**19.** Read the following statements and find out the incorrect statement.

- A. Doliolum-Pharynx perforated by gill slits
- B. Saccoglossus-Heart is dorsal
- C. Amphioxus-Central nervous system is dorsal hollow and double.

D. Magur-Heart is ventral and two chambered.

**Answer: C**



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**20.** The name of phylum is derived from certain features of animals. Select that how many of these are correct. A. Cnidaria-Cnidoblasts/cnidocytes

b. Latworms -Dorso-ventrally flattened body

c. Platyhelminthes-Circular cross section

d. Aschelminthes-Body surface is indistinctly

Marked out into segments or metameres

e. Echinodermata-Exoskeleton of calcareous ossicles.

A. 2

B. 3

C. 4

D. 5

**Answer: B**



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**21. Read the following statements:**

- a. This phylum consists of a small group of worm like marine animals
- b. They are bilaterally symmetrical, triploblastic and coelomate animals
- c. The body is cylindrical
- d. Respiration takes place through gills.

We are talking about the phylum

- A. Aschelminthes (Ascaris)
- B. Mollusca (snail)
- C. Echinodermata (starfish)
- D. Hemichordata(Saccoglossus)

**Answer: D**



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22. Both Fresh water and marine water organisms are found in

- A. Porifera, coelenterate,annelida, mollusca and osteichthyes
- B. Ctenophora, echinodermata, hemichordata and protochordata
- C. Cyclstomata, Chonderichthyes, urochordata and amphibia.
- D. Both A and C

**Answer: A**



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23. Read the followign statements and find out the incorrect statement.

- A. Ctenoplana-The body bears light external rows of ciliated comb plates which help in locomotioin
- B. Nereis-Aquatic annelid having lateral appendages, parapodia, which help in locomotion



C. Sea cucumber-They have water vascular system which help in locomotion

D. None of the above.

**Answer: D**



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**24.** Common characteristics found in chondrichthyes and osteichthyes

- a. Streamlined body
- b. four pairs of gills
- c. Two-chambered heart
- d. Poikilothermous (cold-blooded)
- e. Dioecious (sexes are separate)
- f. Internal fertilisation

A. Three

B. Four

C. Five

D. Six

**Answer: B**



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**25.** How many among following characteristics are common in between reptiles and birds?

- a. Four-chambered heart.
- b. Scales
- c. Homiothermous (warm-blooded)
- d. Dioecious and internal fertilisation
- e. Ovipary and direct development.

A. 2

B. 3

C. 4

D. 5

**Answer: B**



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**26.** Common characteristics found in between aves and mammals are

- a. Respiration in by lungs
- b. Heart if four-chambered
- c. Homoiothermy
- d. Larva is not found
- e. Dioecious and internal fertilisation
- f. Jaws are provided with teeth.

A. 3

B. 4

C. 5

D. 6

**Answer: C**



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**27.** Read the following statements and find out the incorrect statement.

- A. Animals belonging to phylum chordata are fundamentally characterised by the presence of a notochord, a dorsal hollow nerve cord and paired pharyngeal gills slits.
- B. In echinoderms, larva is free-swimming
- C. In non-chordates, central nervous system is ventral, solid and double.
- D. In non-chordates, gill slits, post-anal tail, heart and notochord all are absent.

**Answer: D**



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28. The most unique mammalian characteristic is/are

- A. The presence of milk producing glands (mammary glands)
- B. Heart is completely four chambered
- C. The presence of hair on skin
- D. Both A and C

**Answer: D**



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29. Fill in the blanks

- a. In birds, air sacs connected to 1\_\_\_ supplement respiration
- b. The class name reptilia refers to their creeping or 2\_\_\_ mode of locomotion
- c. In Amphibians, the eyes, 3\_\_\_ eyelids
- d. Cyclostomrs are 4\_\_\_ but migrate for spawning to 5\_\_\_ water.

A. 1-lungs,2-crawling,3-do not have, 4-marine, 5-fresh

B. 1-pneumatic bones, 2-swimming, 3- do not have, 4-marine, 5-fresh

C. 1-lungs, 2- craling, 3- have, 4-fresh water, 5-marine

D. 1-lungs, 2-crawling, 3-have, 4-marine, 5-fresh

**Answer: D**



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**30.** Read the following statement

- a. Teeth are backwardly directed
- b. Their jaws are very powerful
- c. these animals are predaceous
- d. They have to swim constantly to avoid sinking

Here they are talking about

A. Carcharodon (cartilaginous fish)

B. Pterophyllum (bony fish)

C. Lamprey (cyclostomata)

D. both A and B

**Answer: A**



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31. 



Match the columns I, II and III and choose the correct combination from the option given.

A. a-1-M,b-2-K,c-3-L

B. a-2K,b-3-L,c-1-M

C. a-3-M,b-1-K,c-2-L

D. a-2-M,b-3-K,c-1-L

**Answer: D**



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32. Read the following statement and find out the incorrect statement.

- A. Amphibia-body is divisible into head and trunk tail present in salamander.
- B. Osteichthyes-skin is covered with cycloid/ctenoid scales
- C. Reptilia-they do not have external ear openings. Tympanum represents ear
- D. None of the above

**Answer: D**



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33. Which is absent in leech?

- A. Parapodia



B. Ocelli

C. Clitellum

D. Salivary glands

**Answer: A**



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**34.** The infective stages of sheep's liver fluke for the 1<sup>o</sup> and 2<sup>o</sup> host are

A. Metacercaria and cercaria respectively

B. Cercaria and metacercaria respectively

C. Miracidium and metacercaria respectively

D. Metacercaria and miracidium respectively

**Answer: D**



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35. The correct order of larval stages in fasciola hepatica is as follows

- A. Metacercaria, sporocyst, redia, mecracidium and cercaria
- B. Metacercaria, sporocyst, redia, cercaria and miracidium
- C. Miracidium , redia, sporocyst, cercaria and metacercaria
- D. Miracidium, sporocyst, redia, cercaria and metacercaria

**Answer: D**



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36. Which one assists in locomotion?

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

**Answer: D**



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**37.** Which of the following is commonly called 'pinworm','seatworm' or chunna?

- A. *Dracunculus medinensis*
- B. *Enterobius vermicularis*
- C. *Ancylostoma duodenale*
- D. *Wuchereria bancrofti*

**Answer: B**



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**38.** Lack of nematocysts/cnidoblasts, presence of colloblast and biradial symmetry is the characteristic of

- A. Ctenophora
- B. Ctenoplana
- C. Coeloplana/Beroe
- D. All of the above

**Answer: D**

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**39. Enterocoelom is found in**

- A. Protostomia
- B. Deuterostomia
- C. both A and B
- D. Both A and B

**Answer: B**

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40. Animals in which anus is formed by blastopore are

- A. Protostomes
- B. Deuterostomes
- C. Blatostomes
- D. both A and B

**Answer: B**



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41. Which of the following is/are poikilothermic?

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

D. All of the above

**Answer: D**



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**42.** nektons are

A. Suspended organisms

B. Sessile organisms

C. Swimming organisms

D. both A and C

**Answer: C**



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43. 

Match the columns I and II, and choose the correct combination from the option given.

A. a-I,b-ii,c-iii,d-iv,e-v

B. a-ii,b-iii,c-iv,d-I,e-v

C. a-iii,b-v,c-ii,d-I,e-iv

D. a-iii,b-I,c-v,d-ii,e-iv

**Answer: C**



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44. How many tentacles are found in Hydra?

A. 43814

B. 43626

C. 8

D. both B and C

**Answer: D**



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**45.** In sponges, the middle layer in the body wall is called

A. Mesophyl

B. mesoglea

C. Mesenchyme

D. both A and C

**Answer: D**



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**46.** Organisms which are foalting on the surface of water are



- A. Benthos
- B. Plankton
- C. Nektons
- D. Both B and C

**Answer: D**

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**47.** Closed circulatory system occurs in

- A. Snail
- B. Cockroach
- C. Cuttle fish
- D. None of these

**Answer: C**

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48. Which of the following groups of animals belong to same super class?

- A. Hagfish, sawfish and angel fish
- B. Frog, snakes and birds
- C. Lion, tiger and platypus
- D. All of the above

**Answer: B**



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49. Which of the following belong to osteichthyes?

- a. Pterophyllum
- b. Carcharodon
- c. Balaenoptera
- d. Sting ray
- e. Dog fish

f. Magur

g. Exocoetus

h. Fighting fish.

A. a,b,g,h

B. e,c,f,h

C. a,f,g,d

D. g,a,f,h

**Answer: D**



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**50.** Petromyzon is not a true fish because of

A. Presence of gills

B. Absence of operculum

C. Absence of median fins

D. Absence of paired fins and true jaws.

**Answer: D**

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**Others**

1. Assertion : A shark can stay at a desired level in water without swimming.

Reason : It has a buoyancy-regulating organ called as the swim bladder.

- A. If both assertion and reason are true and the reason is the correct explanation of the assertion.
- B. If both assertion and reason are true but reason is not the correct explanation of the assertion.
- C. If assertion is true but reason is false.
- D. If both assertion and reason are false.

**Answer: D**



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**2. What is common between parrot, platypus and kangaroo ?**

- A. Toothless jaws
- B. Functional post anal tail
- C. Oviparity
- D. Homoiothermy

**Answer: D**



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**3. Assertion : Bats and whales are classified as mammals**

**Reason : Bats and whales have four-chambered heart**

- A. IF both assertion and reason are true and the reason is the correct explanation of the assertion.
- B. If both assertion and reason are true but reason is not the correct explanation of the assertion.
- C. If assertion is true but reason is false.
- D. If both assertion and reason are false.

**Answer: B**



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4. Animals of which phylum are priploblastic and bilaterally symmetrical
- A. Porifera
- B. Coelenterata
- C. Ctenophora
- D. Platyhelminthes

**Answer: D**



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**5. Common characteristic found in all worms is**

- A. Endo-parasitism
- B. Free-living
- C. Segmentation and notochord
- D. Triploblastic

**Answer: D**



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**6. Collar cells are found in**

- A. Ctenophora

B. Coelentrata

C. Porifera

D. Echinodermata

**Answer: C**



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7. Which is correctly described with no single exception

A. All reptiles possess scales, have a three chambered heart and are cold blooded.

B. All bony fishes have four pairs of gills and an operculum and each side.

C. All sponges are marine and collared cells.

D. All mammals are viviparous and possess diaphragm for breathing.

**Answer: B**





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8. Which is correct matched without a single exception

- A. Chordrichthyes-Possess cartilaginous skeletono
- B. Mammalis-give birth to young ones
- C. Reptilia-possess 3-chambered heart with incompletely divided ventricle
- D. Chordata-possess a mount provided with a upper and lower jaw.

**Answer: A**



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9. Which of the following are correctly matched with respect to their taxonomic classification?

- A. House fly, butterfly, tse-tse fly, silver fish-insecta

B. Spiny anteater, sea urchin, sea cucumber-Echinodermata

C. Flying fish, cuttle fish, silver fish-pisces.

D. Centipede, millipede, spider, scorpion-Insecta.

**Answer: A**



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**10.** One of the representative of Phylum arthropoda is

A. Puffer fish

B. Flying fish

C. Cuttle fish

D. Silver fish

**Answer: D**



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11. Which one of the following groups of three animals each is correctly matched with their one characteristic morphological features?

- | A. | Animal                                | Morphological feature    |
|----|---------------------------------------|--------------------------|
|    | Centipede, Prawn, Sea urchin          | Jointed appendages       |
| B. | Animal                                | Morphological feature    |
|    | Cockroach, Locust, Taenia             | Metameric segmentation   |
| C. | Animal                                | Morphological feature    |
|    | Scorpion, spider, cockroach           | Ventral solid nerve cord |
| D. | Animal                                | Morphological feature    |
|    | Liverfluke, Sea anemone, Sea cucumber | Bilateral symmetry       |

**Answer: C**



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12. Which one of the following groups of animal reproduces only by sexual means?

- A. Cnidaria and Platyhelminthes
- B. Porifera
- C. Protozoa

D. Ctenophora

**Answer: D**



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**13.** Which of the following animals lack alimentary canal (complete digestive system)?

A. Earthworm

B. Jelly fish

C. Insect

D. Fish

**Answer: B**



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14. Name the character fo phylum aschelminthes which differentiates it from all other phyla of kingdon animalia?

- A. Parasitic mode
- B. round in shape
- C. Pseudocoelomate
- D. Bilateral symmetry

**Answer: C**



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15. Which group of animals belong to the same phylum?

- A. Sponge, Amoeba, Mosquito
- B. Malarial parasite, Amoeba, Mosquito
- C. Earthworm, Pinworm, Tapeworm
- D. Prawn, Scorpion, Locusta

**Answer: D**



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**16. Torsion is characteristic of**

- A. Amphineura
- B. Cephalopoda
- C. Gastropoda
- D. Pelecypoda

**Answer: C**



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**17. Liver rot of sheep is caused by**

- A. Fasciola hepatica

B. Planaria

C. Turbellaria

D. Bipalium

**Answer: A**



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**18. Which of the following is an arboreal animal**

A. Horse

B. Cow

C. Chameleon

D. Bipalium

**Answer: C**



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19. Which of the following is an arboreal animal

- A. possum
- B. flying frog
- C. sloth
- D. All of these

**Answer: C**



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20. Which is correctly matched?

- A. animal                      Characteristic    Taxon  
Sea Anemone    Triploblastic    Cnidaria
- B. animal                      Characteristic                      Taxon  
Silver fish    Pectoral and Pectoral fins    Chordata
- C. animal                      Characteristic    Taxon  
Duckbilled platypus    Oviparous                      Mammalia
- D. animal                      Characteristic                      Taxon  
Millepede    Ventral nerve cord    Arachnida



**Answer: C**



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**21. Correct characteristic of class reptilia are**

- A. Fresh water animals with bony endoskeleton, air bladder to regulate buoyancy.
- B. Marine animals with cartilaginous endoskeleton, body covered with placoid scales.
- C. Body covered with dry and cornified skin, scales over the body are epidermal, they do not have external ears.
- D. Body covered with moist skin which is devoid of scales, the ear is represented by tympanum, alimentary canal, urinary and reproductive tracts open into a common cloaca.

**Answer: C**



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22. Sharks and dogfishes differ from skates and rays by

- A. Head and trunk are widened considerably
- B. Distinct demarcation between body and tail
- C. Their pectoral fins distinctly marked off from cylindrical body
- D. Gill slits are ventrally placed

**Answer: C**



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23. In which of the following phyla, the adult shows radial symmetry while the larva has bilateral symmetry?

- A. Annelida
- B. Arthropoda

C. Mollusca

D. Echinodermata

**Answer: D**



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**24.** Presence of comb plates is characteristic feature of

A. Porifera

B. Cnidaria

C. Ctenophora

D. Platyhelminthes

**Answer: C**



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25. 

Match the columns I, II and III and choose the correct combination from the options given.

A. 1-a-I,2-c-ii,3-b-iii,4-d-iv,5-e-v

B. 1-d-I,2-e-ii,3-e-iii,4-a-v,5-d-iv

C. 1-b-I,2-c-ii,3-e-iii,4-a-v,5-d-iv

D. 1-c-I,2-a-ii,3-d-iii,4-e-v,5-b-iv

**Answer: C**



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26. Read the following statements and choose the correct options I. Pelvic fins of female sharks bear claspers. II . In Obelia polyps produce medusae sexually and medusae form the polyps produce medusae sexually and medusae form the polyps a sexually . III . Flame cells in platyhelminthes help in osmoregulation and excretion . IV. In nonchordates , central

nervous system is ventral , solid and double . V . Pinnae are present in mammals .

- A. II,IV and V only are correct
- B. I,III and V only are correct
- C. III,IV and V only are correct
- D. I,II and III only are correct.

**Answer: C**



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**27. Find the wrongly matched pair.**

- A. Cnidoblast-Prey capture
- B. Flame cells-Defense
- C. Parapodia-Swimming
- D. Radula-Rasping organ

**Answer: B**



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**28.** Urinary bladder is absent in

A. Amphibians

B. Reptiles

C. Aves

D. Mammals

**Answer: C**



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**29.** In Pearl Oyster, pearl is formed by secretion of

A. Shell

B. Mantle

C. Digestive gland

D. None of these

**Answer: B**



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**30. Where are the Kangaroos found?**

A. Asia

B. Australia

C. Africa

D. South america

**Answer: B**



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31. Keber's organ is found in

- A. Sepia
- B. Octopus
- C. Pila
- D. Unio

**Answer: D**



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32. In mosquitoes, the sex differentiation can be done on the basis of

- A. Size of wings
- B. Antennae
- C. Antennae and maxillary palps
- D. Ocelli



**Answer: C**



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**33.** Retrogressive metamorphosis is shown by

- A. Vertebrates
- B. Cephalochordates
- C. Urochordates
- D. Cyclostomes

**Answer: C**



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**34.** Which is absent in the endoderm of Hydra

- A. Sensory cells

B. Nerve cells

C. Nutritive muscular cells

D. Cnidoblasts.

**Answer: D**



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**35. Nerve cells are not found in**

A. Platyhelminthes

B. Coelenterates

C. Sponges

D. Echinoderms

**Answer: C**



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36. 

Match the name of animal (Column I), with one characteristic (Column II) and phylum/Class (Column III) to which it belongs



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37. 

Match the columns I, II and III and choose the correct combination from the options given.



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

A. Blue green algae

B. Cyanobacteria

C. Sea fan (Gorgonia)

D. Saccharomyces

**Answer: C**



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**39.** Select the Taxon mentioned that represents both marine and fresh water species

A. Cnidaria

B. Echinodermata

C. Ctenophora

D. Cephalchordata

**Answer: A**



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**40.** Find out the odd one

A. Adamsia

B. Astreaea

C. Physalia

D. Pleurobrachia

**Answer: D**



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**41.** Which one is an example of living fossil?

A. Coral

B. Ascidia

C. Octopus

D. King crab

**Answer: D**



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**42.** The body of Rohu fish is covered by

- A. Cycloid scales but the tail is homocercal
- B. Placoid scales but the tail is heterocercal
- C. Cycloid scales but the tail is heterocercal
- D. Placoid scales but the tail is homocercal

**Answer: A**



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**43.** Pigeon is

- A. Ovoviviparous

B. Oviparous

C. Viviparous

D. None of the above

**Answer: B**



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**44.** Functional systems for specific physiological functions are not seen in

A. Annelids

B. Molluscs

C. Arthropods

D. Coelentrates

**Answer: D**



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45. 

Match the columns I and II, and choose the correct combination from the options given.

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

B. i-d,ii-e,iii-b,iv-c,v-a

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

D. i-a,ii-b,iii-c,iv-d,v-e

**Answer: C**



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46. Which of the statements regarding coelenterates is/are wrong

I. Cnidocytes are present on the tentacles and on the body

II. Diploblastic with cellular level of organisation

III. Polyp forms are free living



IV. Exhibit metagenesis

V. Polyps produce medusae sexually and medusae form polyps asexually.

A. II and IV only

B. III and V only

C. I,II and III only

D. II, III and V only

**Answer: D**



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**47.** Choose the wrong statement.

A. Teeth in chondrichthyes are modified ctenoid scales

B. Air bladder in fishes regulates buoyancy

C. In amphibians, the tympanum represents the ear

D. Long bones in birds are pneumatic

**Answer: A**



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**48.** A phylum with true coelom is

- A. Porifera
- B. Coelentrata
- C. Arthropoda
- D. Aschelminthes

**Answer: C**



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**49.** Protostomia are those animals in which the blastopore of gastrula becomes

- A. Mouth
- B. Anus
- C. Nasal opening
- D. None of the above

**Answer: A**

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**50.** Which one of the following belongs to phylum Arthropoda?

- A. Dog fish
- B. Devil fish
- C. jelly fish
- D. Silver fish

**Answer: D**

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51. The metazoan without tissue grade of organization is known as

- A. Deuterostomia
- B. Protozoa
- C. Parazoa
- D. Eumetozoa

**Answer: C**



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52. Species of silk moth reared o castor leaves in

- A. Bombyx mori
- B. Antheraea assama
- C. Antheraea pophia

D. *Philosamia ricini*

**Answer: D**



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**53.** Which of the following statement is correct?

- A. Starfish is a radially symmetrical animal with lateral line system.
- B. Jellyfish is a radially symmetrical animal with polypoid body form
- C. Silverfish is a bilaterally symmetrical animal found in marine habitat.
- D. Lamprey is a bilaterally symmetrical animal with a sucking and circular mouth without jaws.

**Answer: D**



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54. Bioluminescence is a characteristic feature of

- A. Adamsia
- B. Pleurobrachia
- C. Physalia
- D. Euspongia

**Answer: B**



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

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

**Answer: A**



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**56.** Identify the scientific name of the animal commonly called blue whale.

- A. Pteropus
- B. Macropus
- C. Delphinus
- D. Balaenoptera

**Answer: D**



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**57.** Metagenesis refers to

- A. Alternation of generation between asexual phases of an organism

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: D**



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**58.** A jawless fish which lays eggs in fresh water and whose ammocoete larve after metamorphosis return to ocean is

A. Myxine

B. Neomyxine

C. Petromyzon

D. Eptatretus



**Answer: C**



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**59.** 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. Coelenterata

**Answer: A**



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**60.** Which of the following endoparasites of humans does show viviparity

- A. *Trichinella spiralis*
- B. *Ascaris lumbricoides*
- C. *Ancylostoma duodenale*
- D. *Enterobius vermicularis*

**Answer: A**

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**61.** Which of the following animals is not viviparous?

- A. Platypus
- B. Whale
- C. Flying fox
- D. Elephant

**Answer: A**

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62. In sponges, the cells that can be converted into other types of cells are called as

- A. Phagocytes
- B. Archeocytes
- C. Collencytes
- D. Trophocytes

**Answer: B**



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63. Which one of the following life cycle stage of liver Fluke is infective to the intermediate host

- A. Metacercaria
- B. Miracidia

C. Sporocyst

D. Cercaria

**Answer: B**



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**64.** Echinococcus is an example of

A. Nematelminthes

B. Platyhelminthes

C. Bacteria

D. Protista

**Answer: B**



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65. The causative agent of Kala-azar is

- A. Plasmodium vivax
- B. Leishmania donovani
- C. Trypanosoma gambiense
- D. Wuchereria bancrofti

**Answer: B**



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66. In metagenesis of cnidarian like Obelia, the polyps and medusae are respectively

- A. N and 2N
- B. 2N and N
- C. 2N and 2N
- D. N and N

**Answer: C**



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**67.** The vector of *Wuchereria bancrofti* is

- A. Aedes
- B. Culex
- C. Anopheles
- D. Pediculus

**Answer: B**



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**68.** The passage of eggs in uterus is lubricated by the secretion from Mehlis glands in

A. Liver fluke

B. Ascaris

C. Platypus

D. Kangaroo

**Answer: A**



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

A. Chitinous exoskeleton

B. Metameric segmetation

C. Parapodia

D. Jointed appendages

**Answer: C**

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70. Which is the National Aquatic Animal of India

- A. Gangetic shark
- B. River dolphin
- C. Blue whale
- D. Sea-horse

**Answer: B**

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

- A. Schizocoelom as body cavity
- B. Indeterminate and radial cleavage during embryonic development
- C. Exoskeleton composed of N-acetylglucosamine



D. Metamerically segmented body

**Answer: B**



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72. 

Which of the following characteristic features always holds true for the corresponding groups of animals?



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73. Which of the following characteristics is not shared by birds and mammals

A. Ossified endoskeleton

B. Breathing using lungs

C. Viviparity

D. Warm blooded nature.

**Answer: C**



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74. 

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

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

B. a-iv,b-ii,c-I,d-iii

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

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

**Answer: C**



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

- A. Testes
- B. Vas deferens
- C. Seminal vesicles
- D. Mushroom glands

**Answer: C**



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76. An important characteristic that hemichordates share with chordates is

- A. Ventral tubular nerve cord
- B. Pharynx with gills slits
- C. Pharynx without gill slits

D. Absence of notochord

**Answer: B**



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77. Which of the following represents order of House?

A. Perissodactyla

B. Caballus

C. Ferus

D. Equidae

**Answer: A**



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

- A. Oscula
- B. Choanocytes
- C. Menechymal cells
- D. Ostia

**Answer: B**



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79. 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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**80.** Which one of these animals is not a homoetherm ?

A. Macropus

B. Chelone

C. Camelus

D. Psittacula

**Answer: B**



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**81.** The places of first, second and third moulting of Ascaris larva are

- A. Soil, alveoli, lung
- B. liver, soil, stomach
- C. soil, lung, liver
- D. soil, intestine, lung

**Answer: B**

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**82.** What is left, when bathsponges dries up

- A. Spicules
- B. Holdfast
- C. Spongin fibres
- D. Tentacles

**Answer: C**

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83. Hydra receives stimuli through

- A. nerve cells
- B. sensory cells
- C. neuron cells
- D. nematocysts

**Answer: B**



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84. Adult Wuchereria bancrofti attacks

- A. Kidney
- B. heart
- C. nervous system



D. lymph vessel

**Answer: D**



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**85.** Which of the following feature is common to leech, cockroach and scorpion?

A. Nephridia

B. Ventral nerve cord

C. Cephalization

D. Antennae

**Answer: B**



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86. Which one of the following features is common in silver fish, 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 and trachae

**Answer: C**



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87. Which one of the following animals is correctly matched with its one characteristic and the taxon?

- |    | Animal            | Characteristic           | Taxon     |
|----|-------------------|--------------------------|-----------|
| A. | Millidepe         | Ventral verve cord       | Arachnida |
| B. | Duckbill platypus | Oviparous                | Mammalia  |
| C. | Silver fish       | Pectoral and pelvic fins | Chordata  |

	Animal	Characteristic	Taxon
D.	Sea anemone	Triploblastic	Cnidaria

**Answer: B**

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**88.** All mammals without any exception are characterized by

- A. Viviparity and biconcave are blood cells
- B. Extra-abdominal testes and a four-chambered heart
- C. Heterodont teeth and 12 pairs of cranial nerves
- D. A muscular diaphragm and milk producing glands.

**Answer: D**

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**89.** Which of the following does not come under the class mammals?

A. Flying fox

B. Hedgehog

C. Manatee

D. Lamprey

**Answer: D**

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**90.** Which one of the following statements is not correct?

A. All echinoderms are viviparous.

B. Roundworm has no circulatory system.

C. In body fishes, swim bladder is usually present.

D. In cartilaginous fishes, fertilization is internal.

**Answer: A**

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91. Ticks and mites are actually

- A. arachnids
- B. crustaceans
- C. insects
- D. myriapods

**Answer: A**



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92. Portuguese man of war' is

- A. soldier of world war I
- B. Portuguese soldier
- C. A sponge

D. A polymorphic, colonial, coelenterata

**Answer: D**



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**93.** Which are exclusively viviparous?

A. Bony fishes

B. Cartilaginous fishes

C. Sharks

D. Whales

**Answer: D**



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94. Given are the four matches of phyla with their characteristic cells

A. Coelenterate-Nematocytes

B. Porifera-Chanocytes

C. Ctenophora-Solenocytes

D. Platyhelminthes-Nephrocytes

Mark the option that has both correct matches.

A. A and B

B. B and C

C. C and D

D. B and D

**Answer: A**



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95. Cockroaches are brown or black bodies animals that are included in class \_\_\_\_ of phylum \_\_\_\_.

A. Reptilia, Annelida

B. Insecta, Arthropoda

C. Insecta, Annelida

D. Reptilia, Arthropoda

**Answer: B**

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96. 

The above diagram shows the germ layers. The animals having structures shown in the figure. (A) and (B) are respectively called.

A. Diploblastic, Triploblastic

B. Triploblastic, diploblastic

C. Diploblastic, Diploblastic

D. Triploblastic, Triploblastic



**Answer: A**



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**97.** 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 marine
- D. Nematocysts are characteristic of the phylum cnidaria

**Answer: C**



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**98.** Column-I contains organisms and column -II contains their excretory structures. Choose the correct match from the option given below:



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

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

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

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

**Answer: D**



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**99.** In Which one of the following the genus name.

A. Genus name Two characters Phylum  
Pila (i).Body segmented mouth with redula Molluscs

B.

Genus name Two characters Phylum  
Asterias (ii).Spiny skinned water vascular system Echinoderm

C. Genus name Two characters Phylum  
Sycon (iii).Pore bearing Canal system Prifera

D.

Genus name Two characters

Phylum

Periplaneta (iv). Jointed appendages chitinous exoskeleton

Arthropoda

**Answer: A**



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**100.** Assertion: Lateral line system is found in fishes and aquatic larval amphibians.

Reason: Bats and whales have four-chambered heart.

- A. IF both assertion and reason are true and the reason is the correct explanation of the assertion.
- B. If both assertion and reason are true but reason is not the correct explanation of the assertion.
- C. IF the assertion is true but reason is false
- D. IF both the assertion and reason are false.

**Answer: B**



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**101.** Assertion: Bats and whales are classified as mammals.

Reason Bats and whales hav four-chambered.

- A. IF both assertion and reason are true and the reason is the correct explanation of the assertion.
- B. If both assertion and reason are true but reason is not the correct explanation of the assertion.
- C. IF the assertion is true but reason is false
- D. IF both the assertion and reason are false.

**Answer: B**



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**102.** Assertion: Tapeworm, roundworm and pinworm are endoparasites of human intestine.

Reason: Improperly cooked food is the source of intestinal infections.

- A. IF both assertion and reason are true and the reason is the correct explanation of the assertion.
- B. If both assertion and reason are true but reason is not the correct explanation of the assertion.
- C. IF the assertion is true but reason is false
- D. IF both the assertion and reason are false.

**Answer: A**



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**103.** 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 assertion and reason are true and the reason is the correct explanation of the assertion.
- B. If both assertion and reason are true but reason is not the correct explanation of the assertion.
- C.
- D.

**Answer: B**



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**104.** Assertion: Torsion can be seen in ctenidium.

Reason: Ctenidium acts as the respiratory organ.

- A. IF both assertion and reason are true and the reason is the correct explanation of the assertion.
- B. If both assertion and reason are true but reason is not the correct explanation of the assertion.
- C. assertion is true but reason is false
- D. both are false

**Answer: B**



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**105.** Assertion: Sponger have body organization of cellular level'

Reason: There is some physiological division of labour.

- A. IF both assertion and reason are true and the reason is the correct explanation of the assertion.

B. If both assertion and reason are true but reason is not the correct explanation of the assertion.

C.

D.

**Answer: B**

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**106.** Assertion: Ambulacral system plays major role in locomotion of echinoderm.

Reason: Hydraulic pressure of fluid and contraction of muscle of tube feet make possible movement of echinoderm.

A. If both assertion and reason are true and the reason is the correct explanation of the assertion.

B. If both assertion and reason are true but reason is not the correct explanation of the assertion.



C.

D.

**Answer: A**



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**107.** Assertion: Acraniata is a group of organisms which do not have distinct cranium.

Reason: It includes small marine forms without head.

A. IF both assertion and reason are true and the reason is the correct explanation of the assertion.

B. If both assertion and reason are true but reason is not the correct explanation of the assertion.

C.

D.

**Answer: B**



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**108.** Assertion: Sponges belong to Porifera.

Reason: Sponges have canal system.

- A. IF both assertion and reason are true and the reason is the correct explanation of the assertion.
- B. If both assertion and reason are true but reason is not the correct explanation of the assertion.
- C. the assertion is true but the reason is false
- D. both are false

**Answer: B**



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**109.** Assertion: Branchiostoma and Balanoglossus are bilaterally symmetrical and triploblastic animals.

Reason: They are exclusively marine and possess notochord

- A. IF both assertion and reason are true and the reason is the correct explanation of the assertion.
- B. If both assertion and reason are true but reason is not the correct explanation of the assertion.
- C. assertion is true but the reason is false
- D. both are false

**Answer: C**



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**110.** Assertion: Cephalisation is advantageous to an animals.

Reason: It improves the appearance of the animal.

- A. IF both assertion and reason are true and the reason is the correct explanation of the assertion.
- B. If both assertion and reason are true but reason is not the correct explanation of the assertion.
- C. the assertion is true but the reason is false
- D. both are false

**Answer: C**



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**111.** Assertion: In Pleurobrachia, eight comb like ciliary plates called comb plates are present on the body that help in locomotion.

Reason: Pleurobrachia reproduces sexually and its life cycle includes cydippid larva.

- A. IF both assertion and reason are true and the reason is the correct explanation of the assertion.

B. If both assertion and reason are true but reason is not the correct explanation of the assertion.

C. if the assertion is true but the reason is false

D. if both assertion and the reason are false

**Answer: B**

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**112.** Assertion: Ambulacral system plays a major role in locomtion of echinoderm.

Reason: Hydraulic pressure of fluid and contraction of muscle of tube feet make possible movement of echinoderm.

A. IF both assertion and reason are true and the reason is the correct explanation of the assertion.

B. If both assertion and reason are true but reason is not the correct explanation of the assertion.

C. if assertion is true but the reason is false

D. if both are incorrect

**Answer: A**



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