

Animal Kingdom

Very Short Answer Type Questions

1. Identify the phylum in which adults exhibit radial symmetry and larva exhibit bilateral symmetry.
2. What is the importance of pneumatic bones and air sacs in Aves?
3. What is metagenesis? Mention an example which exhibits this phenomenon.
4. What is the role of feathers?
5. Which group of chordates possess sucking and circular mouth without jaws?
6. Give one example each for an animal possessing placoid scales and that with cycloid scales.
7. Mention two modifications in reptiles required for terrestrial mode of life.
8. Mention one example each for animals with chitinous exoskeleton and those covered by a calcareous shell.
9. What is the role of radula in molluscs?
10. Name the animal, which exhibits the phenomenon of bioluminescence. Mention the phylum to which it belongs.
11. Write one example each of the following in the space provided.
 - a. Cold blooded animal _____
 - b. Warm blooded animal _____
 - c. Animal possessing dry and cornified skin _____
 - d. Dioecious animal _____
12. Differentiate between a diploblastic and a triploblastic animal.
13. Give an example of the following
 - a. Round worm
 - b. Fish possessing poison sting
 - c. A limbless reptile/ amphibian
 - d. An oviparous mammal

14. Provide appropriate technical term in the space provided.

- o a. Blood-filled cavity in arthropods _____.
- o b. Free-floating form of cnidaria _____.
- o c. Stinging organ of jelly fishes _____.
- o d. Lateral appendages in aquatic annelids _____.

15. Match the following:

Animals	locomotory Organ
a. Octopus	i. Limbs
b. Crocodile	ii. Comb plates
c. Catla	iii. Tentacles
d. Ctenoplana	iv. Fins

Short Answer Type Questions

1. Differentiate between:

- o a. Open circulatory system and closed circulatory system
- o b. Oviparous and viviparous characteristic
- o c. Direct development and Indirect development

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

3. There has been an increase in the number of chambers in heart during evolution of vertebrates. Give the names of the class of vertebrates having two, three or four-chambered heart.

4. Fill up the blank spaces appropriately

Phylum/Class	Excretory Organ	Circulatory Organ	Respiratory Organ
Arthropoda		Lungs/ Gills/Tracheal System	
	Nephridia	Closed	
	Metanephridia	Open	Skin/parapodia
Amphibia	Closed	Lung	

5. Match the following

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

6. Endoparasites are found inside the host body. Mention the special structure, possessed by these and which enables them to survive in those conditions.

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

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

a. _____, b. _____, c.

d. _____, e. _____, f. _____

8. Differentiate between:

- a. Open and closed circulatory system
- b. Oviparity and viviparity
- c. Direct and indirect development
- d. Aceolomate and pseudo coelomate
- e. Notochord and nerve cord
- f. Polyp and medusa

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

- a. Chondrichthyes and ostichthyes
- b. Urochordata and cephalochordata

10. Mention two similarities between

- a. Aves and mammals
- b. A frog and crocodile
- c. A turtle and pila

11. Name

- a. A limbless animal
- b. A cold blooded animal
- c. A warm blooded animal
- d. An animal possessing dry and cornified skin
- e. An animal having canal system and spicules
- f. An animal with cnidoblasts

12. Give an example for each of the following
- a. A viviparous animal
 - b. A fish possessing a poison sting
 - c. A fish possessing an electric organ
 - d. An organ, which regulates buoyancy
 - e. Animal, which exhibits alternation of generation
 - f. Oviparous animal with mammary gland

13. Excretory organs of different animals are given below. Choose correctly and write in the space provided.

Animal	Characteristics
a. Pila	i. Jointed appendages
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f. Dog fish	vi. Placoid scales

14. a. _____, b. _____, c. _____

 d. _____, e. _____, f. _____

Long Answer Type Questions

1. Give three major differences between chordates and non-chordates and draw a schematic sketch of a chordate showing those features.
2. What is the relationship between germinal layers and the formation of body cavity in case of coelomate, acoelomates and pseudocoelomates?
3. Comment upon the habitats and external features of animals belonging to class, amphibia and reptilia.
4. Mammals are most adapted among the vertebrates. Elaborate.