

BIOLOGY

BOOKS - VIKRAM PUBLICATION (ANDHRA PUBLICATION)

ANIMAL DIVERSITY - I

Very Short Answer Questions

1. What physical feature pertaining to the organism and its medium do you notice in a

sponge body form which sponges can be/were identified as animals and not plants? What do you call the region in the sponge body in which you noticed that feature?



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2. What are the different structures that makeup the internal skeleton of a sponge? What are the chemicals involved in the formation of these structures?



3. What are the functions of canal system of sponges ?



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4. What are the two chief morphological 'body forms' of cnidarians? What are their chief functions?



5. What is metagenesis? Animals belonging to which phylum exhibit metagenesis?



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6. What is the cnidarian group with quantitatively / relatively large mesoglea? What is the significance of such a well developed mesoglea pertaining to the aquatic life of that group?



7. What is the chief difference between the hydrozoans and the rest of the cnidarians regarding the germinal layer (s) in which its 'defensive structures or cells of defence' occur?



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8. What are the excretory cells of flatworms called ? What is the other important function of these specialized cells ?



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9. Distinguish between amphids and phasmids.



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10. What is the essential difference between a flat worm' and a 'round worm' with reference to the perivisceral area of the 'bodies'.



11. How do you account for the origin of the perivisceral space in the body of a nematode and an annelid?



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12. What is metamerism? What is the essential difference between the mode of formation of individual morphological body units of a tapeworm and those of an earthworm?



13. How do you distinguish a 'hirudinéaun' from the rest of the annelids, based on the morphological features pertaining to metamerism? How does the coelom of a leech differ from the coelom of an earthworm with reference to its contents?



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14. What do you call the locomotor structures of Nereis? Why is Nereis called a polychaete?



15. What is botryoidal tissue?



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16. What is the difference between the epidermis, of a nematoda and that of an annelid? How does a nematode differ from an annelid with reference to the musculature of the body wall?



17. What do you call the first and second pairs of cephalic appendages of a scorpion ?



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18. What is the uniqueness about the first two pairs of cephalic appendages of a crustacean compared to those of the other extant arthropods?



19. What is the sub-phylum to which ticks' and 'mites' belong? How do you distinguish them from the insects with reference to their walking legs?



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20. What are the respiratory structures of Limulus and Palamnaeus respectively?



21. What are antennae? What is the arthropod group without antennae?



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22. What do you call the perivisceral cavity of an arthropod? Where from is it derived during development?



23. Which arthropod, you have studied, is called a living fossil? Name its respiratory Organs.



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24. How do you identify a Chiton from its external appearance? How many pairs of gills help in the respiration of Chiton?



25. What is the function of radula? Give the name of the group of molluscs which do not possess a radula?



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26. What is the other name for the gill of a mollusc? What is the function of osphradium?



27. What is Aristotle's lantern? Give one example of an animal possessing it.



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28. What is the essential difference between the Juveniles (Larvae) and adults of echinoderms, symmetry wise ?



29. What are blood glands in pheretima?



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30. What are spermatheca on the body of 'pheretima?



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Short Answer Type Questions

1. Write short notes on the salient features of the anthozoans.



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2. What is the class to which the flukes belongs? Write short notes on the chief characters of the group



3. What are the salient features exhibited by Polychaetes?



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4. How do the hirudineans differ from the polychaetes and oligochaetes?



5. What are the chief characters of the crustaceans?



6. Mention the general characters of Arachnida.



7. Compare briefly a centipede and a millipede.



8. Cephalopods show several unique or advanced features when compared to the other molluscs. Discuss briefly.



9. Which class of Mollusca represents the primitive molluscs? What are their chief features?



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10. What are the salient features of the echinoids?



11. Mention the salient features of Holothuroidea.



12. What is the function of nephridia?



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- 13. Answer the following
- (i) What is the function of nephridia?
- (ii) How many types of nephridia are found in
- earthworm based on their location?



14. Mention briefly about the circulatory system of earthworm



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15. . Name the Phylum to which comb Jellies belong to and mention its important features.



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16. Give a brief account of hemichordates.

17. Give three major differences between chordates and non-chordates and draw the sketch of a chordate's body showing those features.



18. Name the four 'hallmarks' of chordates and explain the principal function of each of them.





19. Describe the features of a tunicate that reveals its chordate identify.



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20. Compare and contrast sea squirts and lancelets.



21. List out eight characteristics that helps distinguish a fish from the other vertebrates.



22. Compare and contrast cartilaginous and bony fishes.



23. Describe the structure of the heart of frog.



24. Write eight salient features of the class - Amphibia.



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25. Describe the male reproductive system of frog with the help of a labellel diagram.



26. Write short notes on organs of special senses in frog.



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27. List out the salient features of exo and endoskeleton's in reptiles.



28. List out the extant orders of the Class - Reptilia. Give two examples for each Order.



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



30. What are the features peculiar to ratite birds? Give two examples of ratite birds.



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31. Mention the most important features of nervous system and sense organs in mammals.



- **32.** Write short notes on the following features of the eutherians.
- (a) Dentition, (b) Endoskeletion.



- **33.** Give an example for each of the following.
- a. A viviparous fish
- b. A fish possessing electric organs
- c. A fish possessing poison sting
- d. an organ which regulates buoyancy in the

body of a fish

e. an oviparous animal with milk producing glands.



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34. Mention two similarities between

- (a) Aves and mammals
- (b) A frog and a crocodile
- (c) A lizard and a snake



- **35.** Name the following animals.
- a. A limbless amphilbian
- b. The largest of all living animals
- c. An animal possessing dry and cornified skin
- d. 'National animal' of India.



- 36. Write the generic names of the following.
- (a) An oviparous mammal
- (b) Flying fox

- (c) Blue whale
- (d) Kangaroo.



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Long Answer Type Questons

1. Draw a labelled diagram of the reproductive organs of an earthworm.



2. Describe the digestive system and process of digestion in pheretima.



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Important Questions

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3. What are the excretory cells of flatworms called ? What is the other important function of these specialized cells ?



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12. What is Aristotle's lantern? Give one example of an animal possessing it.



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13. Write short notes on the salient features of the anthozoans.



14. How do the hirudineans differ from the polychaetes and oligochaetes?



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15. Compare briefly a centipede and a millipede.



16. List out the characters shared by chordates and echinoderms.



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17. What is the importance of endostyle in lancelets and ascidians?



18. How do you justify the statement heart in fishes is a branchial heart.



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19. How does the heart of an amphibian differ from that of a reptile ?



20. What are corporabigemina? Mention their chief function.



21. Distinguish between mesorchium and mesovarium.



22. Distinguish between milt and spawn.

23. Name two poisonous and non-poisonous snakes found in south India.



24. In which features does the skin of a reptile differ from that of a frog ?



25. Name the four extra embryonic membranes.



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26. What are jacobson's organs? What is their function?



27. What is 'wish bone' ? What are the skeletal components that form it ?



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28. Distinguish between the crop and the gizzard in birds.



29. Name the three meninges. In which group of animals do you find all of them?



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30. Name the vertebrates groups in which 'renal portal system' is absent.



31. Give three major differences between chordates and non-chordates and draw the sketch of a chordate's body showing those features.



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32. Name the four 'hallmarks' of chordates and explain the principal function of each of them.



33. Describe the features of a tunicate that reveals its chordate identify.



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34. Compare and contrast cartilaginous and bony fishes.



35. Describe the structure of the heart of man with the help of neat labelled diagram.



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36. Write eight salient features of the class - Amphibia.



37. What are the features peculiar to ratite birds? Give two examples of ratite birds.



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38. Mention two similarities between

- (a) Aves and mammals
- (b) A frog and a crocodile
- (c) A lizard and a snake



Very Short Answer Type Questions

1. List out the characters shared by chordates and echinoderms.



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2. Write four salient features of cyclostomes.



3. What is the importance of endostyle in lancelets and ascidians?



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4. Name the type of caudal fins and scales that are present in a Shark and Catla respectively.



5. What is the importance of air bladder in fishes?



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6. How do you justify the statement heart in fishes is a branchial heart.



7. What are claspers ? Which group of fishes possesses them ?



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8. How does the heart of an amphibian differ from that of a reptile ?



9. Name the structures that appeared for the first time in amphibian, in the course of evolution.



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10. How do you distinguish a male frog from a female frog ?



11. What is 'force pump' in frog? Why is named so?



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12. What are corporabigemina? Mention their chief function.



13. Distinguish between mesorchium and mesovarium.



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14. Distinguish between milt and spawn.



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15. What are the 'Golden ages' of the first jawed vertebrates and the first amniotes?

16. Name two poisonous and non-poisonous snakes found in south India.



17. In which features does the skin of a reptile differ from that of a frog ?



18. Describe a cat and a lizard on the basis of their chief nitrogenous wastes excreted.



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19. Name the four extra embryonic membranes.



20. What are jacobson's organs? What is their function?



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21. What are pneumatic bones? How do they help birds?



22. What is 'wish bone' ? What are the skeletal components that form it ?



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23. What is continuous oxygenation of the blood? How is it made possible in birds.



24. Distinguish between the crop and the gizzard in birds.



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25. Distinguish between altricial and precocial hatchlings.



26. In which group of animals do we find three ear ossicles on each side and what are their names from the inner most to the outermost?



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27. How does a mature RBC of a mammal differ from that of other vertebrates ?



28. Name the characteristic type of vertebrae found in reptiles, birds and mammals.



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29. Name the three meninges. In which group of animals do you find all of them?



30. Name the vertebrates groups in which 'renal portal system' is absent.

