

EXERCISE

1. Which of the following is **not** a character of chordates?
 - (1) Notochord present
 - (2) A post-anal metamerically segmented tail
 - (3) Pharynx perforated by gill slits
 - (4) Heart is dorsal in position

2. In which of the following animal the notochord is replaced by bony vertebral column in the adult?
 - (1) *Ascidia*
 - (2) *Branchiostoma*
 - (3) *Petromyzon*
 - (4) *Labeo*

3. In the sub-phylum (i) notochord is present only in the larval tail, while in (ii) , it extends from head to tail region and is persistent throughout their life. In (iii) class of vertebrata notochord is replaced by cartilaginous vertebral column and (iv) class of vertebrata the notochord is replaced by bony vertebral column. Select the option which is correct for all (i) - (iv) blanks

(1) (i) - Cephalochordata	(ii) - Urochordata
(iii) - Agnatha	(iv) - Osteichthyes
(2) (i) - Protochordata	(ii) - Urochordata
(iii) - Agnatha	(iv) - Osteichthyes
(3) (i) - Urochordata	(ii) - Cephalochordata
(iii) - Chondrichthyes	(iv) - Osteichthyes
(4) (i) - Urochordata	(ii) - Cephalochordata
(iii) - Agnatha	(iv) - Gnathostomata

4. Pancreas is absent in

(1) Cyclostomata	(2) Chondrichthyes
(3) Osteichthyes	(4) Gnathostomata

5. Ammocoete larva is of

(1) <i>Myxine</i>	(2) <i>Petromyzon</i>
(3) Agnatha	(4) Cephalochordata

6. Which of the following statement is **incorrect** w.r.t. class Cyclostomata?
 - (1) The members are ectoparasites on some fishes
 - (2) Their body is devoid of scales and paired fins
 - (3) Circulation is of open type
 - (4) They are marine but migrate for spawning to fresh water

7. Acraniata includes
- (1) Urochordata
 - (2) Protochordata
 - (3) Cephalochordata
 - (4) All of these
8. Retrogressive metamorphosis is found in
- (1) *Amphioxus*
 - (2) *Rana*
 - (3) *Ascidia*
 - (4) Protochordata
9. In which of the following notochord is absent?
- (1) Adult tunicate
 - (2) Myxine
 - (3) *Amphioxus*
 - (4) Larval tunicates
10. Which of the following is a common feature of *Amphioxus*, frog, fish and crocodile?
- (1) Skeleton made up of cartilage and bone
 - (2) Pharyngeal gill slits at least in developmental stages
 - (3) Dorsal solid nerve cord
 - (4) Three chambered heart

11. In which of the following fish the skin is tough containing minute placoid scales?
- (1) *Exocoetus* (2) *Hippocampus*
(3) *Scoliodon* (4) *Labeo*
12. Which of the following is **not** a characteristic feature of cartilaginous fish?
- (1) Internal fertilisation (2) Viviparous
(3) Pelvic fins of males bear claspers (4) Gills are covered by an operculum on each side
13. A teleost fish can be differentiated externally from an elasmobranch by
- (1) Endoskeleton (2) Exoskeleton
(3) Operculum (4) Stream line body
14. Bony fishes can stay at a particular depth in water without beating their pectoral and pelvic fins due to the presence of
- (1) Pneumatic bones
(2) Lateral line sense organs (Neuromast organs)
(3) Air bladder
(4) Streamlined body

15. Which of the following is mismatched?
- (1) *Torpedo* : Electric organs, modified muscles supplied with nerves
 (2) *Trygon* : Dorsal fin is modified into a poison sting
 (3) *Exocoetus* : Pectoral fin becomes large by which it can leap into air
 (4) *Hippocampus* : Female bears a brood pouch
16. Ampulla of Lorenzini in *Scoliodon* acts as
- (1) Neuromast organs (2) Thermoreceptors
 (3) Electric organs (4) Rheoreceptors
17. Which of the following is incorrect statement about frog?
- (1) Body is divisible into head and trunk
 (2) The skin is moist without scales
 (3) A tympanum represents the ear
 (4) Fore limbs have four digits with webs and hind limbs have five digits without webs.
18. Which of the following is a limbless amphibian?
- (1) *Hyla* (2) *Salamandar*
 (3) *Ichthyophis* (4) *Bufo*
19. Dicondylic skull with ten pairs of cranial nerves are present in
- (1) Pisces (2) Amphibia
 (3) Reptilia (4) Mammalia
20. Surinam toad is
- (1) *Pipa* (2) *Alytes*
 (3) *Bufo* (4) *Bombinator*

EXERCISE

21. Which of the following set of animals are amniotes?
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|---------------------------------|------------------------------------|
| (1) Pisces and amphibia | (2) Ambhians and reptiles |
| (3) Reptiles, birds and mammals | (4) Amphibians, reptiles and birds |
22. Which of the following is **not** a character of reptiles?
- (1) Body covered by dry and cornified skin
 - (2) They are poikilotherms
 - (3) Fertilisation is external
 - (4) Heart is three chambered but four chambered in crocodiles
23. Which of the following lizard shows camouflaging and has prehensile tail?
- | | |
|-------------------------|----------------------|
| (1) <i>Hemidactylus</i> | (2) <i>Calotes</i> |
| (3) <i>Chameleon</i> | (4) <i>Heloderma</i> |

24. Which of the following is non-poisonous snake?
- (1) *Naja* (2) *Bungarus*
(3) *Vipera* (4) *Python*
25. Carapace is present in
- (1) Toad (2) Birds
(3) *Testudo* (tortoise) (4) Alligator
26. Snakes and lizards shed their scales as skin cast. It is
- (1) Dermis (2) Epidermis
(3) Cornified cells (4) Stratum germinativum
27. Which of the following is **not** a character of Aves?
- (1) The forelimbs are modified into wings
(2) The hind limbs generally have scales and the long bones are pneumatic
(3) Skin is dry without glands except the oil gland at the base of the tail
(4) Air sacs are connected to the lungs which help in exchange of gases
28. *Aptenodytes* (Penguin) is found in
- (1) Australia (2) Antarctica
(3) Africa (4) America
29. Which of the following is a flightless bird?
- (1) *Neophron* (2) *Struthio*
(3) *Psittacula* (4) *Pavo*
30. All the following statements are **correct** about Aves but one is **wrong**. Which one is wrong?
- (1) Fertilisation is internal
(2) They are oviparous and development is direct, without exception
(3) They are homeothermic animals with twelve pairs of cranial nerves
(4) All the flightless birds have sternum with keel