

Answer five questions in all, selecting not more than two from each Group, in which Q.No. 1 is compulsory.

1. Select the correct answer of the following :

- (a) Function of contractile vacuole in protozoa is :
(i) Locomotion (ii) Osmoregulation (iii) Digestion of food (iv) Respiration
- (b) The inner lining of spongeocoel is lined by :
(i) Flagella (ii) Nematoblast (iii) Choanocytes (iv) All of these
- (c) What is the most favourite food of Hydra ?
(i) Small fishes (ii) Bacteria (iii) Tadpole (iv) Waterflea
- (d) Earthworm is :
(i) Ammonotelic (ii) Uricotelic (iii) Ureotelic (iv) Aminotelic
- (e) Which of the following is not an insect ?
(i) Housefly (ii) Spider (iii) Cockroach (iv) Mosquito
- (f) Chloragogen cells are present in :
(i) Bodywall of Leucosolenia (ii) Blood of Earthworm
(iii) Blood of Cockroach (iv) Coelomic fluid of Earthworm
- (g) The number of ommatidia in each compound eye is :
(i) 1000 (ii) 2000 (iii) 3000 (iv) 4000
- (h) In starfish anus is present on :
(i) Ventral surface (ii) Dorsal surface
(iii) Lateral surface (iv) Dorso-lateral surface
- (i) The longest poisonous snake is :
(i) Rattle snake (ii) Karait (iii) King cobra (iv) Python
- (j) In Amphioxus wheel organ helps in :
(i) Nutrition (ii) Excretion (iii) Respiration (iv) Reproduction
- (k) Midwife Toad is :
(i) Pipa (ii) Hyla (iii) Alytes (iv) Flying frog
- (l) Heart of Man is :
(i) Neurogenic (ii) Cardiogenic (iii) Digenic (iv) Myogenic
- (m) Lymph can be defined as :
(i) Blood with R.B.C. (ii) Blood without R.B.C.
(iii) Blood without platelets (iv) Blood without plasma
- (n) The scientific name of Indian bull frog is :
(i) Rana sylvatica (ii) Rana esculenta (iii) Rana catesbianca (iv) Rana tigrina
- (o) Which is the main characteristic of mammals ?
(i) presence of cervical vertebra (ii) Presence of coelom in the body
(iii) Presence of external ear (iv) Presence of diaphragm

Group-A

2. Classify phylum protozoa upto classes giving characters and examples.
3. Describe the canal system in sponges and mechanism of water current flowing through it.
4. Mention the general characters of ctenophora and discuss its affinities.
5. What is respiration ? Describe the process of respiration in prawn.
Or, Give an account of structure and affinities of peripatus.

Group-B

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6. Discuss the various theories regarding the origin of Chordata.
7. What is retrogressive metamorphosis ? Discuss with special reference to the life history of Herdmania.
8. Describe the urinogenital system of male scolodon with suitable diagram.
9. Give a comparative account of heart in tetrapods.