

Junior Intermediate Zoology Model Paper

PAPER - I

(English Version)

Time : 3 hours

Max. Marks : 60

Note : Read the following instructions carefully.

- (i) Answer **all** the questions of Section 'A'. Answer **any six** questions in Section 'B' and answer **any two** questions in Section 'C'.
- (ii) In Section 'A', questions from Sr. Nos. **1 to 10** are of **Very Short Answer Type**. Each question carries **two** marks. Every answer may be limited to 5 lines. Answer all these questions at one place in the same order.
- (iii) In Section 'B', questions from Sr. Nos. **11 to 18** are of **Short Answer Type**. Each question carries **four** marks. Every answer may be limited to **20** lines.
- (iv) In Section 'C', questions from Sr. Nos. **19 to 21** are of **Long Answer Type**. Each question carries **eight** marks. Every answer may be limited to **60** lines.
- (v) Draw labelled diagrams wherever necessary in Sections 'B' and 'C'.

SECTION - A

10 × 2 = 20

Note: Answer all questions in 5 lines each.

1. What is meant by tautonymy? Give two examples.
2. What is monaxial heteropolar symmetry? Name the group of animals in which it is the principal symmetry.
3. Name the animals that exhibited a 'tube-within-a-tube' organisation for the first time. Name their body cavity.
4. Distinguish between holocrine and apocrine glands.
5. Distinguish between amphids and phasmids.
6. How do you justify the statement - "Heart in fishes is a branchial heart."?
7. Draw a labelled diagram of T.S of flagellum.
8. What are dynein arms? What is their significance?
9. What do you mean by parasitic castration? Give one example.
10. Explain the difference between the 'niche' of an organism and its 'habitat'.

SECTION - B

6 × 4 = 24

Answer any six questions in 20 lines each.

11. What is 'Evil Quartet'?
12. Describe the structure of a multipolar neuron with the help of a diagram.
13. What are the salient features of the echinoids?
14. Compare and contrast cartilaginous and bony fishes.
15. Describe the process of transverse binary fission in *Paramecium*.
16. "Prevention is better than cure". Justify with regard to TDA abuse.
17. Draw a neat, labeled diagram of the mouthparts of cockroach.
18. Discuss the causes and effects of "Global Warming". What measures need to be taken to control "Global Warming"?

SECTION - C

2 × 8 = 16

Answer any two questions in 60 lines each.

19. Describe the life cycle of *Plasmodium vivax* in mosquito with the help of a neat, labeled diagram.
20. Describe the blood circulatory system of *Periplaneta* and draw a neat labelled diagram of it.
21. Describe different types of food chains that exist in an Ecosystem.