

Junior Inter Zoology Model Paper

60 Marks

[Time : 3 Hours]

[Max. Marks : 60]

Note : Read the following instructions carefully.

- (i) Answer **all** the questions in Section – A. Answer any **six** questions in Section – B and any **two** questions in Section – C.
- (ii) In Section – A, questions from Sl. 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 Sl. 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 Sl. Nos. 19 to 21 are of Long Answer Type. Each question carries **eight** marks. Every answer may be limited to **60** lines.
- (v) In Section – B and C, draw labelled diagrams wherever necessary.

SECTION - A

10 x 2 = 20 M

1. What is trinomial nomenclature? Give an example.
2. What is monaxial heteropolar symmetry? Name the group of animals in which it is the principal symmetry.
3. Mention the animals that exhibited a 'tube-within-a-tube' organisation for the first time. Name their body cavity.
4. What is a Sesamoid bone? Give an example.
5. What is metagenesis? Animals of which phylum exhibit metagenesis?
6. How do you justify the statement 'heart in fishes is branchial heart'?
7. What are dynein arms? What is their significance?
8. Distinguish between synchronous and metachronous movements.
9. From which substances 'Smack' and 'Coke' are obtained?.
10. Why are incinerators used in hospitals?

SECTION – B

6 X 4 = 24 M

11. Explain River Popper hypothesis.
12. Describe the structure of a skeletal muscle.
13. How do the hirudineans differ from the polychaetes and oligochaetes?
14. What are the modifications that are observed in birds that help them in flight?
15. Describe the process of transverse binary fission in *Paramecium*.
16. Why adolescence is considered as vulnerable phase?
17. Draw a neat labelled diagram of the mouthparts of cockroach.
18. Explain Vant' Hoff rule.

SECTION – C

2 X 8 = 16M

19. Describe the respiratory system of *Periplaneta* with neat labeled diagram.
20. Explain the structure and life cycle of *Entamoeba histolytica* with the help of neat and labelled diagrams.
21. List out the major air pollutants and describe their effects on human beings.