

JUNIOR INTER ZOOLOGY (IPE-2011)

Model Paper-3

Time: 3 hours

Max. Marks: 60

Note: *Read the following instructions carefully.*

- (i) Answer **all** the questions of **Section-A**. Answer **ANY SIX** questions out of eight in **Section-B** and answer **ANY TWO** questions out of three 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. No.s **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. No.s **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 for questions in **Section-B** and **C**.

SECTION-A

I. Very short answer questions

10 x 2 = 20 M

Answer all the following questions. Each answer may be limited to 5 lines.

1. What is **tautonymy**? Give one example.
2. What are **junior synonyms** and **junior homonyms**?
3. What is **gnathochilarium**?
4. What are **muscle spindles**?
5. What are **myonemes**?
6. What do you mean by **parasitic castration**?
7. Distinguish between **primary amoebiasis** and **secondary amoebiasis**.
8. What is **true metamerism**?
9. How are **corpora adiposa of cockroach** functionally similar to the liver of vertebrate?
10. Describe **Van' t Hoff's rule**

SECTION-B

II. Short answer questions

6 x 4 = 24 M

Answer any six of the following questions. Each answer may be limited to 20 lines.

11. Mention the general characters of **Holothuroidea**.
12. Explain **Haversian system**.
13. Explain the **sol-gel theory** of amoeboid locomotion.
14. Describe the process of **longitudinal binary fission in Euglena**.
15. Describe the **mutualism** with two examples.
16. Explain the **economic importance of honey bees**?
17. Draw a neat labelled diagram of the **mouth parts of female mosquito**.
18. How do natality, mortality and population dispersal affect the density of a population.

SECTION-C

III. Long answer questions

2 x 8 = 16 M

Answer any two of the following questions. Each answer may be limited to 60 lines

19. Describe the mosquito phase of *Plasmodium vivax*.
20. Explain blood circulation in *Pheretima* in the first **thirteen segments** with a suitable diagram.
21. What is a food chain? Explain the various types of food chains in a community. Add a note on food web.