

JUNIOR INTER ZOOLOGY (IPE-2011)

Model Paper - 2

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. Distinguish between **protostomes** and **deuterostomes**.
2. Define **Biotechnology** and write its applications.
3. What are **rhabdites**?
4. Distinguish between **blastocoel** and **archenteron**.
5. Large volume organisms like fishes are stream lined to reduce the pressure drag in water. But small volume organisms like *chlamydomonas* are not stream lined. Why?
6. How is **hydrostatic skeleton** formed in *Taenia solium*?
7. Distinguish between a **facultative** and an **obligate** parasite.
8. In a laboratory when the body of *Pheretima* is kept dry continuously using blotting paper, it could not survive. What is the reason for it?
9. Distinguish between **palpifer** and **palpiger**.
10. Distinguish between **insolation** and **albedo**.

SECTION-B

II. Short answer questions

6 x 4 = 24 M

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

11. **Cephalopods** show several unique or advanced features when compared to the other mollusks. Discuss.
12. Write notes on **lymph**.
13. Explain the **flagellar locomotion** in protozoans.
14. Explain the series of **post conjugation fissions** in the process of conjugation in *Vorticella*.
15. Explain the life cycle of *Entamoeba histolytica*.
16. Describe the structure of **trachea** of cockroach.
17. Draw a neat labelled diagram of the mouth parts of **house fly**.
18. Write a short account on **bioluminescence**.

SECTION-C

III. Long answer questions

2 x 8 = 16 M

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

19. Describe the human phase of *Plasmodium vivax*.
20. Give an account of the reproductive organs in *Pheretima*. Draw a neat labelled diagram of the reproductive system.
21. Describe the biodiversity management methods.