131

I

Total No. of Questions : 21

Total No. of Printed Pages : 2

Reg. No. | | | | | | | | | | |

Part – III
ZOOLOGY
Paper – I
(English Version)

Time : 3 Hours

Max. Marks : 60

Note : Read the following instructions **carefully**.

(1) Answer **ALL** the questions of **Section – A**. Answer **ANY SIX** questions in **Section – B** and answer **ANY TWO** questions in **Section – C**.

(2) In **Section – A**, questions from Sr. Nos. **1** to **10** are Very Short Answer Type. **Each** question carries **TWO** marks. Every answer may be limited to **5** lines. Answer **ALL** question at **one** place in the **same** order.

(3) 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.

(4) 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.

(5) Draw labelled diagrams **wherever** necessary in **Section – B** and **C**.

SECTION – A

(10×2=20)

Note : Answer **ALL** the questions in **5** lines **each**.

1. Differentiate between protostomia and deuterostomia.
2. What does ICZN stand for ?
3. What is the haematocrit value ?
4. Mention the animals that exhibited a 'tube-within-a-tube' organisation for the first time. Name their body cavity.
5. Distinguish between amphids and phasmids.
6. What is botryoidal tissue ?

7. Draw a labelled diagram of T.S. of Flagellum.

8. What do you mean by parasitic castration ? Give one example.

9. Define neoplasia. Give one example.

10. Mention the advantages of some UV rays to us.

SECTION – B (6×4=24)

Note : Answer **ANY SIX** questions in **20** lines **each**.

11. Define species. Explain the various aspects of species.

12. Explain Haversian system.

13. What are the chief characters of the crustaceans ?

14. Name the four 'hallmarks' of chordates and explain the principal function of each of them.

15. What are the modifications that are observed in birds that help them in flight ?

16. Describe the process of transverse binary fission in paramecium.

17. Give an account of pseudopodia.

18. Distinguish between hypertrophy and hyperplasia with an example for each.

SECTION – C (2×8=16)

Note : Answer **ANY TWO** questions in **60** lines **each**.

19. What is the coelom ? Explain the different types of coelom with suitable examples and neat labelled diagrams.

20. Describe the life cycle of plasmodium vivax in man.

21. Write an essay on temperature as an ecological factor.