

0131

SET -

Total No. of Questions - **33**
Total No. of Printed Pages - **3**

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No.

Part - III
ZOOLOGY, Paper - I
(English Version)
MODEL QUESTION PAPER
(For the Academic Year 2021-22 only)

Time : 3 Hours

Max. Marks : 60

SECTION - A

10 × 2 = 20

- Note:** (i) Answer **ANY TEN** Questions
(ii) Each Question carries **TWO** marks
(iii) All are very short answer type questions.

1. Write the full form of IUCN. In which book threatened species are enlisted.
2. Distinguish between embryology and ethology.
3. What are retroperitoneal organs?
4. What are the excretory cells of flatworms called? What is the other important function of these specialized cells?
5. Distinguish between milt and spawn.
6. How does your body solve the problem of altitude sickness, when you ascend tall mountains?
7. Distinguish between white matter and grey matter of 'CNS'.
8. Define species richness.

9. What do you call the locomotor structures of *Nereis*? Why is *Nereis* called a polychaete?
10. What is the other name for the gill of a mollusc? What is the function of osphradium?
11. What is a hyper-parasite? Mention the name of one hyper-parasite.
12. Give the names of any four protostomian phyla.
13. Describe the methods of biological control of mosquitoes.
14. Distinguish between altricial and precocial hatchlings.
15. Distinguish between exocrine glands and endocrine glands with examples.

SECTION - B

6 × 4 = 24

- Note:**
- (i) Answer **ANY SIX** questions.
 - (ii) Each question carries **FOUR** marks.
 - (iii) All are of short answer type questions.
 - (iv) Draw labelled diagrams wherever necessary
16. Write short notes on typhoid fever and its prophylaxis.
 17. Explain Haversian system.
 18. Explain in brief 'Biodiversity Hot Spots'.
 19. Compare and contrast cartilaginous and bony fishes.
 20. Write a short note on the pathogenicity of *Entamoeba histolytica*.
 21. Describe briefly about the three types of intercellular junctions of epithelial tissues.
 22. What is the 'evil quartet'?
 23. Compare briefly a centipede and a millipede.
 24. Name the four 'hallmarks' of chordates, and explain the principal function of each of them.
 25. Explain van't Hoff rule.

26. Why in adolescence is considered vulnerable phase?
27. Define species. Explain the various aspects of 'species'.
28. Write eight salient features of the class Amphibia.
29. Explain brood parasitism with a suitable example.

SECTION - C

2 × 8 = 16

- Note:**
- (i) Answer any **ANY TWO** questions.
 - (ii) Each question carries **EIGHT** marks.
 - (iii) All are long answer type questions.
 - (iv) Draw labelled diagrams wherever necessary
30. Describe the digestive system and process of digestion in *Pheretima*.
 31. Write an essay on temperature as an ecological factor.
 32. Describe the structure and life cycle of *Ascaris lumbricoides* with the help of a neat and labelled diagram.
 33. Describe the various types of connective tissue proper with suitable examples.
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