

Total No. of Questions : 21
Total No. of Printed Pages : 2

Regd. No.

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Part - III
ZOOLOGY, Paper - II
(English version)

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 answer **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) Draw labelled diagrams wherever necessary for questions in **Section-B** and **C**.

SECTION-A

10×2=20

Note : Answer **all** the questions. Every answer should be limited to five lines.

1. Give two important characters of Apoda.
2. Based on which character did Monotremata get that name ?
3. What is meant by Chloride Shift ?
4. What is meant by Augmentation ? In which part of nephron it occurs ?

5. Distinguish between Diabetes insipidus and Diabetes mellitus.
6. What is sex reversal ?
7. What is an Organism Cloning ?
8. Explain the theory of Panspermia.
9. Distinguish between Culture fishery and Capture fishery.
10. List out two benefits of X-Ray radiography.

SECTION - B

6×4=24

Note : Answer ANY SIX questions in 20 lines each.

11. Mention eight differences between Chondrichthyes and Osteichthyes.
12. Write a short note on Archaeopteryx.
13. What is Hepatitis ? Explain any two types of viral hepatitis.
14. Draw a labelled diagram of T.S. of the Spinal cord.
15. Explain Weismann's theory of Germplasm.
16. Discuss the conditions for Hardy Weinberg equilibrium.
17. Explain any two viral and two bacterial diseases in Poultry.
18. Describe various vectors used in *r* - DNA technology.

SECTION - C

2×8= 16

Note : Answer ANY TWO of the following questions.

19. Describe the structure of the heart of Rabbit. Draw a neat labelled diagram of the L.S. of the heart.
20. Describe male reproductive system of Rabbit. Draw labelled diagram of it.
21. Describe the sex determination in human beings. How does it differ from that of *Drosophila* ?