

231
TS

A

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** questions of Section – A. Answer **any six** questions in Section – B and answer any **two** questions in Section – C.
- (ii) In Section – A, questions from Sr. 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 Sr. 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 Sr. 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 Sections – B and C.

SECTION – A

10 × 2 = 20

Note : Answer **all** the questions in **5** lines each :

1. Bile juice contains no digestive enzymes. Yet it is important for digestion.
How ?
2. What is triad system ? Where is it located ?
3. Name the middle ear ossicles. What is their evolutionary origin ?
4. Distinguish between the enzymes renin and rennin.

5. Write two differences between diabetes insipidus and diabetes mellitus.
6. "Colostrum is very much essential for the new born infants." Justify.
7. Define atavism with an example.
8. Define Founder effect. Give one example.
9. What is popularly called "Guardian Angel of Cell's Genome" ?
10. Differentiate Apiculture and Pisciculture.

SECTION – B

6 × 4 = 24

Note : Answer any six questions in 20 lines each :

11. If you take protein in your food, how does it get digested in the body? Explain.
12. Describe any four occupational respiratory disorders.
13. Draw a labelled diagram of the T.S. of the Spinal-cord of man.
14. Explain how hypothyroidism and hyperthyroidism can effect the body ?
15. What are Sexually Transmitted Diseases (STDs) ? List any three STDs and their causative organisms.
16. Explain Darwin's theory of natural selection with industrial melanism as an experimental proof.
17. What is DNA fingerprinting ? Write any four applications of DNA fingerprinting.
8. Discuss briefly the process of Indirect ELISA.

SECTION – C

2 × 8 = 16

Note : Answer any two questions in 60 lines each :

19. What is Criss Cross inheritance ? Explain the inheritance of one sex linked recessive character in human beings.
20. Write notes on the working of the heart of the man with the help of neat labelled diagram. Add a note on Double Circulation.
21. Describe Male reproductive system of a man. Draw a neat labelled diagram.