

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.

- Day 8
- 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 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.
 - 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 Sections 'B' and 'C'.

SECTION A

10 × 2 = 20

Answer **all** questions in 5 lines each.

1. Give the dental formula of adult human beings.
2. Name the valves that guard the left and right atrioventricular apertures in man.
3. What is a triad system?
4. What is corpus callosum?
5. Which hormone is commonly known as fight and flight hormone?

6. Differentiate between perforins and granzymes.
7. What are the functions of Sertoli cells of the seminiferous tubules and the Leydig cells in man?
8. What in your view are the reasons for population explosion, especially in India?
9. What is apiculture?
10. Explain the term, hypophysation.

SECTION B

6 × 4 = 24

Answer **any six** questions in **20** lines each.

11. What are the functions of liver?
12. Explain the process of inspiration and expiration under normal conditions.
13. Draw a labelled diagram of the T.S. of the spinal cord of man.
14. Write a short note on immunoglobulins.
15. How is sex determined in human beings?
16. Explain Darwin's theory of natural selection with industrial melanism as an experimental proof.
17. Distinguish between homologous and analogous organs.
18. Explain the different types of cancers.

SECTION C

2 × 8 = 16

Answer **any two** questions in **60** lines each.

19. Describe the excretory system of man giving the structure of a nephron.
20. Describe the female reproductive system of a woman with the help of a labelled diagram.
21. What is crisscross inheritance? Explain the inheritance of one sex-linked recessive character in human beings.