



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

Regd.
No.



Part - III
ZOOLOGY - PAPER - II
(English Version)

Time : 3 Hours

Max. Marks : 60

Note : Read the following instructions carefully.

- (i) Answer all the 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 Section - B and C.

SECTION - A

Note : Answer all the questions in 5 lines each.

10x2=20

1. Write the names of any four mononuclear phagocytes.
2. What is Chyme ?
3. Name the cranial meninges covering the brain of man.
4. Mention any four fish by-products.
5. What are the measures one has to take to prevent contracting STDs ?
6. What do you know about arbor vitae ?
7. Name the yellow mass of cells accumulated in the empty follicle after ovulation. Name the hormone secreted by it and what is its function ?
8. MRI scan is harmless - Justify.
9. What are renal pyramids and renal papillae ?
10. "Colostrum is very much essential for the new born infants". Justify.

SECTION - B

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

6x4=24

11. Describe the structure of synovial joint with the help of a neat labelled diagram.
12. Draw a neat labelled diagram of L.S. of tooth.
13. How is sex determined in human beings ?
14. Distinguish between homologous and analogous organs.
15. What are the major transport mechanisms for CO_2 ? Explain.
16. Explain in brief structure of Insulin.
17. Compare a 'pituitary dwarf' and a 'thyroid dwarf' in respect of similarities and dissimilarities they possess.
18. Explain Darwin's theory of Natural selection with industrial melanism as an experimental proof.

SECTION - C

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

2x8=16

19. Describe male reproductive system of a man. Draw a labelled diagram of it.
20. Describe the structure of the heart of man with the help of neat labelled diagram.
21. What is crisscross inheritance ? Explain the inheritance of one sex linked recessive character in human beings.