



231

II

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 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.

 $10 \times 2 = 20$

1. What is chyme ?
2. What are the columns of Bertin ?
3. Distinguish between red muscle fibers and white muscle fibers.
4. Name the keystone bone of the cranium. Where is it located ?
5. Which hormone is called anti-diuretic hormone ? Write the name of the gland that secretes it.
6. Which hormone is commonly known as fight and flight hormone ?
7. Define spermiogenesis and spermiation.
8. What are the measures one has to take to prevent contracting STDs ?
9. Define the terms layer and broiler.
10. MRI scan is harmless - justify.



SECTION - B

Note : Answer any six questions.

11. Draw a neat labelled diagram of L.S. of a tooth.
12. Describe the disorders of respiratory system.
13. Give an account of synaptic transmission.
14. Write short notes on immunoglobulins.
15. How is sex determined in human beings ?
16. Distinguish between homologous and analogous organs.
17. Explain Darwin's theory of Natural Selection with industrial melanism as an experimental proof.
18. Honey bees are economically important - justify.

SECTION - C

Note : Answer any two questions.

2x8=

19. Describe the structure of the heart of man with the help of neat labelled diagram.
20. Describe 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.