

**231****II**

Total No. of Questions : 21

Total No. of Printed Pages : 2

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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 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.**10x2=20**

1. What is autocatalysis ? Give two examples.
2. Define cardiac cycle and cardiac output.
3. What is organ of Corti ?
4. What is triad system ?
5. What is 'insulin shock' ?
6. What is acromegaly ? Name the hormone responsible for this disorder.
7. Mention the advantages of 'lactational amenorrhea method'.
8. What are the measures one has to take to prevent contracting STDs ?
9. Define the term transgenic animal.
10. Define the terms layer and broiler.

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SECTION - B

Note : Answer *any six* questions.

6x4=24

11. Draw a neat labelled diagram of L.S. of a tooth.
12. What are the major transport mechanisms for CO₂ ? Explain.
13. Describe the structure of synovial joint with the help of a neat labelled diagram.
14. Write short notes on B-cells.
15. How is sex determined in human beings ?
16. Explain the different types of cancers.
17. Distinguish between homologous and analogous organs.
18. Explain Darwin's theory of Natural Selection with industrial melanism as an experimental proof.



SECTION - C

Note : Answer *any two* questions.

2x8=16

19. Explain the physiology of urine formation.
20. Describe male reproductive system of a man. Draw a labelled diagram of it.
21. What are multiple alleles ? Describe multiple alleles with the help of ABO blood groups in man.

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