0231

SET -

Total No. of Questions - **33**Total No. of Printed Pages - **3** 

Regd.					
No.					

## Part - III ZOOLOGY, Paper - II

(English Version)

## **MODEL QUESTION PAPER**

(For the Academic Year 2021-22 only)

Time: 3 Hours Max. Marks: 60

**SECTION - A** 

 $10 \times 2 = 20$ 

**Note:**(i) Answer **ANY TEN** Questions

- (ii) Each Question carries **TWO** marks
- (iii) All are very short answer type questions.
- 1. What is the effect of pCO<sub>2</sub> on oxygen transport?
- 2. Name the muscles that help in normal breathing movements.
- 3. Define cardiac cycle and cardiac output.
- 4. What are the columns of Bertin?
- 5. What is juxtaglomerular apparatus?
- 6. What is a 'motor unit' with reference to muscle and nerve?
- 7. What do you know about arbor vitae?
- 8. What is 'insulin shock'?
- 9. What is erythropoietin? What is its function?
- 10. Write the names of any four mononuclear phagocytes.

- 11. What is erythroblastosis foetalis?
- 12. What is sex-linked inheritance?
- 13. What are VNTRs?
- 14. Distinguish between a drone and worker in a honey bee colony.
- 15. Define the term 'vaccine'.

## **SECTION - B**

 $6 \times 4 = 24$ 

Note:

- (i) Answer **ANY SIX** questions.
- (ii) Each question carries **FOUR** marks.
- (iii) All are of short answer type questions.
- (iv) Draw labelled diagrams wherever necessary
- 16. How is respiratory movements regulated in man?
- 17. Describe disorders of respiratory system.
- 18. Describe the internal structure of kidney of man.
- 19. Describe the role of liver, lungs and skin in excretion.
- 20. Describe the structure of a skeletal muscle.
- 21. Draw a labelled diagram of the T.S of the spinal cord of man.
- 22. Give an account of the secretions of pituitary gland.
- 23. Write short notes on immunoglobulins.
- 24. Explain the mechanism of cell mediated immunity.
- 25. Briefly describe the common sexually transmitted diseases in human beings.
- 26. Is sex education necessary in schools? Why?
- 27. How is sex determined in human beings?
- 28. List out the various steps involved in MOET.
- 29. Explain the different types of cancers.

Note:

- (i) Answer any **ANY TWO** questions.
- (ii) Each question carries **EIGHT** marks.
- (iii) All are long answer type questions.
- (iv) Draw labelled diagrams wherever necessary
- 30. Describe the structure of the heart of man with the help of neat labelled diagram.
- 31. Explain the transmission of nerve impulse through a nerve fibre with the help of suitable diagrams.
- 32. Describe female reproductive system of a woman with the help of a labelled diagram.
- 33. What are multiple alleles? Describe multiple alleles with the help of ABO blood groups in man.

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