

**0231**

SET -

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

Regd.  
No.

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**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 × 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  $p\text{CO}_2$  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 × 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.

**SECTION - C**

**2 × 8 = 16**

- 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.