

0231**A****Total No. of Questions – 33****Regd.****Total No. of Printed Pages – 3****No.**

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Part - III
ZOOLOGY, Paper - II
(English Version)

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 are conchae?
2. Name the muscles that help in normal breathing movements.
3. Sino-atrial node is called the pacemaker of our heart. Why?
4. What are the columns of Bertin?
5. Define glomerular filtration.
6. What is triad system?
7. Name the cranial meninges covering the brain of man
8. Which hormone is called anti-diuretic hormone? Write the name of the gland that secretes it.
9. "Colostrum is very much essential for the new born infants". Justify.
10. Which hormone is commonly known as fight and flight hormone?

11. What is haplo-diploidy?
12. List out any two applications of DNA fingerprinting technology.
13. What is pleiotropy?
14. Define the terms layer and broiler.
15. Mention any four fish by-products

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. Explain the process of inspiration and expiration under normal conditions.
 17. Describe disorders of respiratory system.
 18. Differentiate vertebrates on the basis of the nitrogenous waste products they excrete, giving examples.
 19. Describe the internal structure of kidney of man.
 20. Draw a labelled diagram of the T.S of the spinal cord of man.
 21. Describe the important steps in muscle contraction.
 22. Give an account of the secretions of pituitary gland.
 23. Write short notes on B-cells.
 24. Write a note on Addison's disease and Cushing's syndrome.
 25. Describe the surgical methods of contraception.
 26. How is sex determined in human beings?
 27. Is sex education necessary in schools? Why?
 28. Honey bees are economically important-justify.
 29. Discuss in brief about 'Avian Flu'.

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. What are multiple alleles? Describe multiple alleles with the help of ABO blood groups in man.
31. Describe the structure of the heart of man with the help of neat labelled diagram.
32. Describe male reproductive system of a man. Draw a labelled diagram of it.
33. Give a brief account of the structure and functions of the brain of man.