

**BOARD OF INTERMEDIATE EDUCATION**  
**SENIOR INTER ZOOLOGY**

**MODEL PAPER (ENGLISH VERSION)**

**TIME: 3 Hours**

**Max. Marks: 60**

**SECTION – A**

**I. i) All are very short answer type questions.**

**ii) Answer ALL the questions.**

**iii) Each question carries TWO marks.**

**10 × 2 = 20**

1. What is the effect of pCO<sub>2</sub> on Oxygen transport?
2. Where is the valve of Thebesius in the heart of man?
3. Name the Keystone bone of human cranium. Where it is located?
4. What is all or none Principle?
5. Differentiate between mature B-cells and functional B-cells.
6. What are the functions of sertolicells and Leydig cells in human testis?
7. Draw a labeled diagram of a spermatozoan.
8. Write two reasons for population explosion.
9. What is Lyonisation?
10. List out any four features of Cancer Cells.

**SECTION – B**

**II. i) Short answer type questions.**

**ii) Answer any SIX from the following.**

**iii) Each question carries FOUR marks.**

**6 × 4 = 24**

11. What are the functions of liver?
12. Give a brief account of counter current mechanisam.
13. Draw labeled diagram of pelvic girdle of man.
14. List out the endocrine glands of man and mention the hormones they secrete?
15. Write salient features of HGP.
16. Write notes on Neodarwinism.
17. What is meant by genetic drift? Explain it citing the example of Foundeis effect?
18. Describe briefly, the process of indirect ELISA?

SECTION – C

III. i) Long Answer type questions.

ii) Answer any TWO questions.

iii) Each question carries EIGHT marks.

$2 \times 8 = 16$

19. Describe the process of formation of urine in man.

20. Give an account of structure and functions of human brain.

21. What is Criss Cross inheritance? Explain the inheritance of one sex linked recessive trait.

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