

No. of Printed Pages : 2

36537



V Semester B.Sc. Degree Examination, April / May - 2021

ZOOLOGY-V

**Z-5.1 : Cell Biology & Developmental Biology
(CBCS)**

Time : 3 Hours

Maximum Marks : 70

- Instructions :**
- (i) *Answer all the questions.*
 - (ii) *Draw labelled diagrams wherever necessary.*

SECTION - A

Answer any five of the following.

5x2=10

1. Write any four differences between Prokaryotes and Eukaryotes.
2. Mention the hydrolytic enzymes found in Acrosome of sperm.
3. In which phase of meiosis chromosome number reduces to half ? Define crossing over.
4. What is morphogenetic movement ?
5. Expand IVF and ICSI.
6. What is Oncology ? Name any two carcinogens.

SECTION - B

(A) Answer any three of the following.

3x5=15

7. Describe the steps involved in the process of oogenesis with the schematic representation.
8. Draw a neat labelled diagram of the whole mount of 24 hrs. chick embryo.
9. Write a brief account of the modern trends in Reproduction.
10. Enumerate the functions of Placenta.
11. Sketch and label the structure of Hen's egg.

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36537

2

(B) Answer any three of the following.

3x5=15

12. Briefly explain the ultra structure of mitochondrion with a neat labelled diagram.
13. Enumerate the characteristics of cancer cells.
14. Explain the Leptotene and Zygotene stages of meiosis with the help of labelled diagrams.
15. Describe the fluid mosaic model of plasma membrane with labelled diagram.
16. Give an account of the functions of nucleus.

SECTION - C

(A) Answer any two of the following.

2x10=20

17. Describe the mechanism of fertilization and its significance.
18. Give an account of the extra embryonic membranes of chick.
19. Explain the whole mount of 48 hrs. of chick embryo with a neat labelled diagram.

(B) Answer any one of the following.

1x10=10

20. Describe the different stages of mitosis with suitable diagrams.
21. Explain in detail about the occurrence, types and functions of lysosome.

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