

Roll No. \_\_\_\_\_

[Total No. of Pages : 2

SVS-N-321 A-21  
B.Sc. V Semester Degree Examination  
ZOOLOGY  
Cell and Molecular Biology  
Paper - DSE-3.1  
(New)

Time : 3 Hours

Maximum Marks : 80

*Instructions to Candidates:*

1. Answer **all** the questions.
2. Draw **diagrams** wherever necessary.

SECTION-A

I Answer any **Ten** of the following.

(10×2=20)

1. Prokaryotes ✓
2. Apoptosis
3. Nucleotides ✓
4. Polyploidy
5. Plasmids ✓
6. Electrophoresis
7. Crossing -over.
8. Functions of Ribosomes ✓
9. Carcinogens ✓
10. Oparon concept.
11. Cell theory ✓
12. Inversion. ✓

SECTION - B

II Answer the following in brief.

(2×5=10)

A Answer any **Two** of the following.

13. Functions of Lysosomes.
14. Types of chromosomes based on position of centromere.
15. Properties of Cancer cell.

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(1)

[Contd....

- B. Answer any Two of the following. (2×5=10)
16. Griffiths experiments.
  17. Structure of t-RNA.
  18. Applications of Genetic Engineering in Medicine.

**SECTION - C**

**III.** Answer the following in Details.

- A. Answer any Two of the following. (2×10=20)
19. Detail process of Mitosis.
  20. Structure and functions of Mitochondrion
  21. Giant chromosomes.
- B. Answer any Two of the following. (2×10=20)
22. Watson and crick model of DNA.
  23. r-DNA technology.
  24. Protein Bio-synthesis.

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