

B.Sc DEGREE EXAMINATION, APRIL 2019
II Year III Semester
Cell Biology and Molecular Biology

Time : 3 Hours

Max.marks :75

Section A ($10 \times 2 = 20$) Marks

Answer any **TEN** questions

1. Plasmodesmata
2. Prokaryote
3. F1 particle
4. Cristae
5. Cilia
6. Microtubule
7. Feedback inhibition
8. Operator gene
9. Cosmid
10. Vector
11. Translation
12. Auto regulation

Section B ($5 \times 5 = 25$) Marks

Answer any **FIVE** questions

13. List out the differences between prokaryotes and eukaryotes.
14. Explain the ultrastructure of mitochondria.
15. Explain the structure of chloroplast and its functions.
16. List the functions of lysosomes.
17. Explain PCR.
18. Write a brief account on trp- operon.
19. Explain the techniques of gene manipulation.

Section C ($3 \times 10 = 30$) Marks

Answer any **THREE** questions

20. Describe the ultrastructure and function of cell wall.
21. Write an essay on the structure and function of plasma membrane.
22. Describe microbodies in detail.
23. Explain in detail the operon concept, illustrating the LAC operon system.
24. Describe the role of DNA recombinant technology in genetic engineering.

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