B.Sc. DEGREE EXAMINATION,NOVEMBER 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. Nucleoid
2. Fluid mosaic model.
3. Phagocytosis
4. Suicidal bags
5. Middle lamella
6. Peptidoglycan
7. Peroxisomes
8. Sphaerosomes
9. Feedback inhibition.
10. Allolactose
11. Cosmid
12. Plasmid

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

Answer any **FIVE** questions

13. Describe the structure of a prokaryotic cell.
14. Give an account on structure and functions of golgi bodies.
15. Write notes on cilia and flagella.
16. Explain *trp* operon system of gene regulation.
17. Give an account on the enzymes in recombinant DNA technology.
18. Explain the structure of mitochondria. .
19. Give an account on non-living cell inclusions of a cell.

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

Answer any **THREE** questions

20. Describe the properties of protoplasm.
21. Explain the structure and function of chloroplast.
22. Describe the structure and function of microtubules.
23. Analyse the gene regulation with reference to *lac* operon.
24. Describe the different steps involved in PCR with its applications.

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