

M.Sc.DEGREE EXAMINATION, APRIL 2020
I Year II Semester
Cell Biology

Time : 3 Hours

Max.marks :75

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

Answer any **TEN** questions

1. Ion channel
2. Osmosis
3. Peroxisomes
4. Dictyosomes
5. F1 particles
6. Thylakoids
7. Reduction cell division
8. Anaphase
9. Centromere
10. Euchromatin
11. Nucleotide
12. Transposons

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

Answer any **FIVE** questions

13. Explain the function of plasma membrane in a cell.
14. Critically comment on the structure and function of Endoplasmic reticulum.
15. Write the steps involved in the isolation of DNA.
16. Comment on the different phases in the cell cycle.
17. What are chromosomes? Explain with neat diagram.
18. What are the different transport mechanism in the cell membrane? Explain.
19. Write about the ribosomes and its importance as cell organelle.

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

Answer any **THREE** questions

20. Describe the model of plasma membrane in detail.
21. Draw a neat diagram and explain the different layer of cell wall and comment on the function of the cell wall.
22. Enumerate the key features of nucleus with neat labelled diagram.
23. Give a detailed account on stages of meiosis.
24. What are the different types of chromosome? Describe in detail.

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