

NOVEMBER 2017

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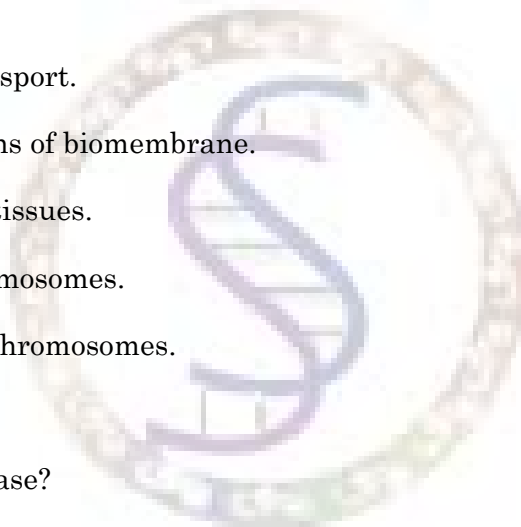
Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer any TEN questions.

1. What is a cell?
2. What are microtubules?
3. Write the functions of lysosomes.
4. What is a chloroplast?
5. Define symport.
6. Write about active transport.
7. Write the basic functions of biomembrane.
8. What are the types of tissues.
9. Give an account on desmosomes.
10. Write the functions of chromosomes.
11. Define mitosis.
12. What is meant by S-phase?



SECTION B — (5 × 5 = 25 marks)

Answer any FIVE questions.

13. Give an account on prokaryotic cell.
14. Comment on the structure and functions of microfilaments.
15. Describe the structure and functions of nucleus.
16. Explain the biological functions of Glyoxisomes.
17. Give an account on fluid mosaic model of plasma membrane.
18. Discuss the role of cell adhesion molecules.
19. Explain the structure and functions of prokaryotic genome.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

20. Explain in detail about the difference between prokaryotic and eukaryotic cell.
21. Elaborately discuss the structure and functions of mitochondria.
22. Explain the various transport mechanism involved in cell.

23. Describe the components and biological role of extracellular matrix.
 24. Discuss the various phases of cell cycle.
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