

APRIL 2018

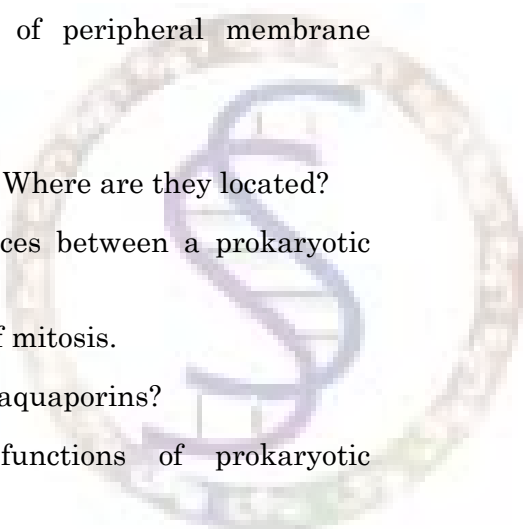
1709309/UBYM21C

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer any TEN questions.

1. Draw and label the parts of a basic virus.
 2. What is the Composition of microtubules?
 3. List the functions of lysosomes.
 4. Note : Cell Wall Construction.
 5. Define symport and antiport.
 6. What is the function of peripheral membrane proteins?
 7. Define ECM.
 8. What are desmosomes? Where are they located?
 9. State any two differences between a prokaryotic and eukaryotic genome.
 10. State the significance of mitosis.
 11. What is the function of aquaporins?
 12. List the types of functions of prokaryotic ribosomes.
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SECTION B — (5 × 5 = 25 marks)

Answer any FIVE questions.

13. Who proposed the cell theory? What are its postulates?
14. Compare the structure of a mitochondria with that of a chloroplast.
15. Discuss in detail the mechanism of active and passive transport.
16. Briefly explain the organisation of tissues.
17. Describe the types, structure and functions of chromosomes.
18. List the differences between plant cell and animal cell.
19. Explain the various stages of mitosis.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

20. Explain the general structure, composition and functions of cytoskeleton.
21. Give an elaborate account of the structure of cell wall.

22. Discuss the salient features of the 'Fluid Mosaic Model' of a membrane.
 23. Write a detailed account on cell cell junctions.
 24. Explain the various phases of cell cycle.
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