APRIL 2017 **1708104/UBYM21A**

Time : Three hours Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer any TEN questions.

Each question carries 2 marks.

1. What are tubulins?
2. What is aquaporin?
3. State cell theory.
4. How do RER differ from SER?
5. What are the enzymes present in the matrix of mitochondria?
6. Distinguish between eukaryotic and prokaryotic genome.
7. What is antiport?
8. Give the structure of Laminin.
9. What are ionophores?

10. What is cell cycle?

11. What are dyenins?

12. What are CAMs?

SECTION B — (5 × 5 = 25 marks)

Answer any FIVE questions.

Each question carries 5 marks.

13. Differentiate between eukaryotic and prokaryotic cell.

14. Why are lysosomes known as cleaners of cell waste?

15. Mention the transport mechanism across cell membrane.

16. Write a note on cell matrix adhesion.

17. Explain organisation of genes with a neat diagram.

18. Highlight the phases of cell cycle.

19. Write a note on cellular junctions.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

Each question carries 10 marks.

20. What are viruses? How are they classified?

21. Give the structure, function and composition of mitochondria.

22. What are biomembranes? Add a note on functions of biomembranes.

23. Give an account on structure and biological role of ECM.

24. Describe the different stages of meiotic cell division.

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