

D.K.M. COLLEGE FOR WOMEN (AUTONOMOUS), VELLORE-1**SEMESTER EXAMINATIONS****NOVEMBER - 2017****15CBC1A****CELL BIOLOGY****Time : 3 Hours****Max. Marks : 75****SECTION – A (10 x 2 = 20)****Answer ALL the questions.**

1. What is incipient nucleus?
2. Note on Polyribosomes.
3. Give a note on Actin and Myosin.
4. Write about the composition of Collagen.
5. Define unit membrane model.
6. What are extrinsic and intrinsic proteins?
7. What is the suicidal bag of a cell?
8. Give a note on Vacuoles.
9. Define mitosis.
10. Define cell cycle.

SECTION – B (5 x 5 = 25)**Answer any FIVE of the following questions.**

11. Explain the organization and composition of bacterial cell.
12. Compare between the prokaryotic and eukaryotic cells.
13. Give the classification of tissue.
14. Explain the active transport process.
15. Explain the gap junction in plasma membrane.
16. Describe the structure and functions of nucleus.
17. Describe the structure of chromosome and its parts.
18. Explain the phases of cell cycle.

SECTION – C (3 x 10 = 30)**Answer ALL the questions.**

19. (a) Discuss the similarities and differences between the plant and animal cells.

(Or)

- (b) Explain the biochemical maturation of tissue and their functions.

20. (a) Explain the Fluid mosaic model of plasma membrane.

(Or)

- (b) Describe the structure, properties and functions of mitochondria.

21. (a) Explain the stages involved in mitotic cell division.

(Or)

- (b) Describe the structure, properties and functions of Golgi apparatus.