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D.K.M. COLLEGE FOR WOMEN (AUTONOMOUS), VELLORE-1

SEMESTER EXAMINATIONS

NOVEMBER – 2016

15CZO3A

CELL AND MOLECULAR BIOLOGY

Time : 3 Hrs

Max. Marks : 75

SECTION-A (10 x 2 = 20)

Answer ALL questions.

Define / Explain the following.

1. Principles of Microscope.
2. Chromatography.
3. Plasmamembrane.
4. Suicidal bag.
5. Amitosis
6. Nucleolus.
7. G2 phase.
8. rRNA.
9. Replication.
10. Genetic code.

SECTION-B (5 x 5 = 25)

Answer any FIVE of the following questions.

11. Explain about Fractionation.
12. Write a note on Electrophoresis.
13. Give an account of Golgi complex.
14. Describe about the chromosome banding.
15. Write about the cell cycle.
16. Give a brief account on the significance of cell signaling.
17. What are the enzymes involved in DNA replication?
18. Write the importance of tRNA.

SECTION-C (3 x 10 = 30)

Answer ALL questions.

19. (a) Write an essay on the Electron Microscope and its Application.
(Or)
(b) Describe the Ultrastructure of Animal cell.
20. (a) Write about the meiosis and its significance.
(Or)
(b) Explain about the signaling from plasma membrane to nucleus.
21. (a) Discuss about the synthesis of protein.
(Or)
(b) Write notes on the surface receptors.

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