Reg.No:						

15CZ03A

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

NOVEMBER - 2017 CELL AND MOLECULAR BIOLOGY

Time: 3 Hours Max. Marks: 75

SECTION – A $(10 \times 2 = 20)$

Answer ALL the questions. Define / Explain the following.

- 1. Homogenization.
- 2. Expand TEM and SEM.
- 3. Centriole.
- 4. Endocytosis.
- 5. Nuclear pore.
- 6. Cytokinesis.
- 7. Autocrine signalling.
- 8. Effector cell.
- 9. mRNA.
- 10. Codon.

SECTION – B $(5 \times 5 = 25)$

Answer any FIVE of the following questions.

- 11. Explain about the paper chromatography.
- 12. Describe the fluid mosaic model of plasma membrane.
- 13. Discuss the functions of Golgi apparatus.
- 14. Write the significance of mitotic cell division.
- 15. Give an account of the ultra structure of chromosome.
- 16. Write a short account on the surface receptors and intracellular receptors.
- 17. Explain the semi conservative model of DNA replication.
- 18. Write short notes on protein synthesis.

SECTION – C ($3 \times 10 = 30$)

Answer ALL the questions.

19. (a) Describe the principle and the structure of electron microscope.

(Or)

- (b) Write about the electrophoresis. Add a note on its applications.
- 20. (a) Explain about the polymorphism in lysosomes.

(Or)

- (b) Describe the ultra structure of nucleus.
- 21. (a) Explain cell signalling through the second messenger system.

(Or)

(b) Describe the types of RNA.

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