D 13212

(Pages : 2)

Name.....

Reg. No.....

FIRST SEMESTER M.Sc. DEGREE EXAMINATION, DECEMBER 2016

(CUCSS)

General Biotechnology

GB 1C 1- CELL BIOLOGY

Time : Three Hours

Maximum : 36 Weightage

Section A (Very Short Answers)

Answer **all** questions. Each question carries weightage 1.

- 1. Cadherins.
- 2. Heterochromatin.
- 3. Glycophorin.
- 4. Leucoplast.
- 5. Tight functions.
- 6. Glucose transporter.
- 7. GABA.
- 8. Synaptonemal complex.
- 9. P^{53} gene.
- 10. Prions.

(10 x 1 = 10 weightage)

Section B (Short Answer Type Questions)

Answer any **seven** questions. Each question carries weightage 2.

- 11. CDKs and Cyclins in DNA replication.
- 12. Explain translation in Chloroplasts and Mitochondria.
- 13. Discuss in brief cell theory and explain its salient features.
- 14. Give the reason why viruses are not true cells.
- 15. What are the transmembrane proteins? How are they distributed in biomembranes.
- 16. Explain the methods for transport of large molecules.
- 17. Give an account of lysosomes and their role in cell metabolism.

Turn over

- 19. Summarize the chemiosmotic theory of ATP production.
- 20. Write a note on check points of cell cycle.

 $(7 \times 2 = 14 \text{ weightage})$

Section C (Essay Type Questions)

Answer any **two** questions. Each question carries weightage 6.

- 21. Explain post translational modifications and protein uptake of eukaryotes.
- 22. Write an essay on cellular energy transactions.
- 23. Discuss different types of oncogenes and molecular events of Cancer.

 $(2 \ge 6 = 12 \text{ weightage})$