

D 92979

(Pages : 2)

Name.....

Reg. No.....

FIRST SEMESTER M.Sc. DEGREE EXAMINATION, DECEMBER 2015

(CUCSS)

General Biotechnology

GB 1C 1— CELL BIOLOGY

Time : Three Hours

Maximum : 36 Weightage

Section A (Very Short Answer)

*Answer **all** questions.*

Each question carries a weightage of 1.

1. Prions.
2. Peroxisomes.
3. Plasmodesmata.
4. Second Messenger.
5. Cytochrome C.
6. Molecular Chaperons.
7. Capsomeres.
8. Liposomes.
9. Glycoproteins.
10. Poly A tailing.

(10 x 1 = 10 weightage)

Section B (Short Answer Type Questions)

*Answer any **seven** questions.*

Each question carries a weightage of 2.

11. Explain Cell cycle and Cell cycle regulation.
12. Explain flagellar organisation and functions.
13. Explain the molecular mechanism of ATP formation.
14. Give an account on protein targetting.
15. Describe post translational modifications in eukaryotes.
16. Explain the structure and function of plasma membrane.
17. Discuss about molecular chaperons and protein folding.

Turn over

18. Explain structure, organization and functions of ribosome.
19. Give an account on ABC transporters.
20. Explain Cell-cell communication at synapse.

(7 x 2 = 14 weightage)

Section C (Essay Type Questions)

*Answer any **two** questions.*

Each question carries a weightage of 6.

21. Describe two apoptosis pathways and explain the specific role of mitochondria and caspases.
22. Describe the different mechanisms for the transport of molecules across the membrane.
23. Explain the Biosynthesis of protein in eukaryotes.

(2 x 6 = 12 weightage)