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(Pages : 2)

Name.....

Reg. No.....

FIRST SEMESTER M.Sc. DEGREE EXAMINATION, JANUARY 2014

(CUCSS)

General Biotechnology

GB 1C 1—CELL BIOLOGY

Time : Three Hours

Maximum : 36 Weightage

Section A

*Answer **all** questions.*

Each question carries 1 weightage.

1. What are signal peptides ?
2. What is smooth endoplasmic reticulum ?
3. Which organelle is most directly involved in cellular aerobic respiration ?
4. What is chromosome ?
5. What is the function of chaperons ?
6. Define tight junctions.
7. What is cilia ?
8. What is passive transport ?
9. Define prions.
10. What is microtubule ?

(10 x 1 = 10 weightage)

Section B

*Answer any **seven** questions.*

Each question carries 2 weightage.

11. Explain the biosynthesis of proteins in Prokaryotes.
12. Explain about membrane trafficking.
13. Explain the structure of viruses.
14. Explain the post translational uptake of proteins by mitochondria.
15. Explain cell cycle checkpoints.
16. Discuss about diversity in internal organization of cell.
17. Explain about folding of polypeptides.
18. Explain about cytoskeleton and its importance.

Turn over

19. Briefly explain the meiosis and its importance.
20. What is extra cellular matrix.

(7 x 2 = 14 weightage)

Section C

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

21. Discuss about signal transduction.
22. Describe the molecular events in Cancer.
23. Describe the role of mitochondria and chloroplast.

(2 x 6 = 12 weightage)