

D 22416

(Pages : 2)

Name.....

Reg. No.....

FIRST SEMESTER M.Sc. DEGREE EXAMINATION, JANUARY 2012

(CUCSS)

General Biotechnology

GBT 101—CELL BIOLOGY

(2010 Admissions)

Time : Three Hours

Maximum Weightage : 36

Section A

Answer all questions.

1. Name the organism comes under prokaryotes.
2. Define Golgi apparatus.
3. What is the role of mitochondria in a cell ?
4. What is the fate of apoptosis in a cancer tissue (or) organ ?
5. What is meant by environmental signal ?
6. Define Tight junction.
7. Define Translocation.
8. Define Co-translation.
9. What are the organelles present in the extra cellular matrix of a cell ?
10. How a protein can be targeted in to a nucleus ?

(10 x 1 = 10 weightage)

Section B

Answer any seven questions.

11. How cells are classified based on its theory ?
12. Define Prions.
13. Differentiate the cell wall of Prokaryotes and Eukaryotes.
14. What is meant by model system ? What is its use ?
15. How membrane trafficking is achieved by plasma membrane ?
16. How many ATP's produced by mitochondria during cellular energy transaction ?
17. What is the role of mitochondria in post-translational modification ?
18. Define Chaperons.

Turn over

19. Classify sub cellular organelles.
20. What is the difference between Cilia and Flagella.

(7 X 2 = 14 weightage)

Section C

Answer any two questions.

21. Explain cell cycle and its regulation.
22. Explain the mechanism of signal transduction.
23. Explain protein biosynthesis in prokaryotes.

(2 x 6 = 12 weightage)