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(Pages : 2)

Name.....

Reg. No.....

FIRST SEMESTER B.A./B.Sc. DEGREE EXAMINATION, NOVEMBER 2019

(CBCSS—UG)

Biotechnology

BTY 1B 01—CELL BIOLOGY

(2019 Admissions)

Time : Two Hours

Maximum : 60 Marks

Section A (Short Answer Type Questions)

Answer any ten questions.

Each carries 2 marks.

1. Any four milestones in cell biology.
2. What are Glyoxysomes ?
3. Distinguish Apoptosis and Necrosis.
4. Adult stem cells.
5. What is metastasis ?
6. Cdk inhibitors.
7. GABA.
8. ABC transporters.
9. Distinguish Heterochromatin and Euchromatin.
10. Define gap junctions and tight junctions.
11. Calmodulin.
12. What is RUBISCO ?

(10 × 2 = 20 marks)

Section B (Paragraph Type Questions)

Answer any six out of seven.

Each carries 5 marks.

13. Explain chemo osmotic theory of ATP synthesis.
14. Describe the methods for transport of large molecules through plasma membrane.
15. Distinguish aerobic and anaerobic respiration.

Turn over

16. Explain what changes in cell cycle lead to cancer.
17. Write a brief account on cytoskeleton elements.
18. What is synaptonemal complex ? Explain its significance in meiosis.
19. What are plastids ? Describe different types of plastids.

(6 × 5 = 30 marks)

Section C (Essay Type Questions)

Answer any one question.

It carries 10 marks.

20. Explain the structure and function of plasma membrane.
21. Describe cyclic and non cyclic photo phosphorylation.

(1 × 10 = 10 marks)