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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)