

D 72957

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Name.....

Reg. No.....

**FIRST SEMESTER M.A./M.Sc./M.Com. DEGREE EXAMINATION
DECEMBER 2019**

(CBCSS)

General Biotechnology
GBTIC 01—CELL BIOLOGY
(2019 Admissions)

Time : Two Hours and a Half

Maximum : 30 Weightage

Section A

*Answer any **four** questions.*

Each question carries a weightage of 2.

1. Peroxisomes.
2. Distinguish apoptosis and necrosis.
3. Cdk inhibitors ?
4. Tight junction and Gap junction.
5. ABC transporter.
6. RB gene and p53 gene.
7. Phase contrast microscope.

(4 × 2 = 8 weightage)

Section B

*Answer any **four** questions.*

Each question carries a weightage of 3.

8. Oxidative metabolism in mitochondria.
9. Structure and function of flagella.
10. Fluid mosaic model of plasma membrane.
11. A brief account on cytoskeleton elements.
12. Describe different types of plastids.

Turn over

13. Write a note on mitochondrial DNA.
14. Give an account on extracellular matrix.

(4 × 3 = 12 weightage)

Section C

Answer any two questions.

Each question carries a weightage of 5.

15. Describe different cell cycle check points and explain cell cycle regulation.
16. Explain the principle, structure, working mode and application of Scanning electron microscope.
17. Explain intrinsic and extrinsic pathway of apoptosis.
18. Explain different types of membrane transport ?

(2 × 5 = 10 weightage)