

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

B.Sc. (Hons.) (Microbiology)

(Sem.-1)

CELL BIOLOGY

Subject Code : BSMB-105-19

M.Code. : 78983

Date of Examination : 14-01-2023

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. **SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.**
2. **SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.**
3. **SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.**

SECTION-A

1. **Write briefly :**
 - a. Define a cell, and who was the first to discover a non-living cell.
 - b. What are protein filaments, and mention their name?
 - c. Define a suicidal bag.
 - d. What do you understand with the term freeze drying?
 - e. How a plant cell is different from an animal cell?
 - f. Define cell differentiation.
 - g. Write down the functions of cytosol.
 - h. Enlist the phases of the cell cycle.
 - i. Write the difference between RER and SER.
 - j. What is microtome and write its utility.

SECTION-B

2. Discuss the functions of the nucleus.
3. Explain the process of mitosis.
4. Elaborate on a different level of cell organization.
5. Write down the process of cell senescence and death.
6. Write a short note on cell locomotion.

SECTION-C

7. Explain the structure and functions of any four cell organelles.
8. Write a detailed note on the cytophotometric method and embedding.
9. Define cell and write a short note on the theory of cell.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.