

## CBCS-317

M. Sc. (First Semester) Examination, Dec. 2022

(CBCS Course)

**BIOCHEMISTRY**

*Paper : 102*

(Cell Biology)

*Time Allowed : Three hours*

*Maximum Marks : 60*

*Minimum Pass Marks : 21*

*Note : Attempt questions of both sections as directed.  
Distribution of marks is given with sections.*

**Section-‘A’**

**(Short Answer Type Questions) 5×6=30**

*Note : Attempt all five questions. One question from each unit is compulsory. Each question carries 6 marks.*

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**Unit-I**

1. Write a short note on Prions.

**Or**

Write the difference between prokaryotic cell and eukaryotic cell and draw their structure.

**Unit-II**

2. Describe the molecular organisation and biogenesis and function of mitochondria.

**Or**

Write a short note on endomembrane system and concept of compartmentalization.

**Unit-III**

3. Write a short notes on any two :
  - (a) Cell respiration
  - (b) Membrane transport in bacteria
  - (c) Endocytosis and Exocytosis
  - (d) Physiochemical properties of cell membrane

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**Unit-IV**

4. Write a short note on cell cycle and its regulation.

**Or**

Explain the process of Apoptosis.

**Unit-V**

5. Write a brief note on chromosomal aberration.

**Or**

Write a short note on molecular organization of gene chromosome. <https://www.apsuonline.com>

**Section-‘B’**

**(Long Answer Type Questions) 3×10=30**

*Note : Attempt any three questions. Each question carries 10 marks.*

6. Write a short notes on the following :

- (a) Virus  
(b) Cynobacteria

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7. Write short notes on the following :  
(a) Lysosome structure and its function  
(b) Plastic & Chloroplast
8. Describe the process of active and passive transport across the plasma membrane.
9. Write a detail note on Meiosis.
10. Describe the properties, functions and different types of chromosomes.

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