



Reg. No. :

Name :

III Semester B.Sc. Degree (CBCSS-Reg./Sup./Imp.)

Examination, November - 2019

(2014 Admn. Onwards)

GENERAL COURSE IN BIOCHEMISTRY

3A11 BCH : CELLULAR BIOCHEMISTRY

Time : 3 Hours

Max. Marks : 40

SECTION-AAnswer **All** questions. Each question carries **One** mark. (4×1=4)

1. What is cell theory?
2. What is membrane fluidity?
3. Write two major differences between plant and microbial cell.
4. What are the major functions of endoplasmic reticulum?

**SECTION-B**Answer any **Seven** questions. Each question carries **Two** marks. (7×2=14)

5. Write short note on chloroplast.
6. What are desmosomes?
7. Write the functions of lysosomes.
8. What is antiport? Give example.
9. What is endocytosis?
10. Write difference between apoptosis and necrosis.
11. What are the major constituents of extracellular matrix?
12. What are cadherins?
13. Differentiate between mitosis and meiosis.

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14. What are capsases?

SECTION-C

Answer any **Four** questions. Each question carries **Three** marks.

(4×3=12)

15. Explain receptor mediated endocytosis.
16. Give the structure of chloroplast.
17. Differentiate between active and passive transport.
18. Differentiate between a tight junction and gap junction.
19. Write note on ATPases.
20. Write note on the composition of plasma membrane.

SECTION-D

Answer any **Two** questions. Each question carries **Five** marks. **(2×5=10)**

21. Give an account of the ultrastructure of mitochondria.
 22. Describe the properties of a malignant cell.
 23. Give an account of cell-cell interaction.
 24. Describe fluid mosaic model.
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