QP CODE: 23104673

23104673

Reg No : .....

Name : .....

B.Sc DEGREE (CBCS) REGULAR/IMPROVEMENT/REAPPEARANCE EXAMINATIONS, FEBRUARY 2023

First Semester

B.Sc Microbiology Model III

Complementary Course - BT1CMT01 - BIOTECHNOLOGY - CELL BIOLOGY

2017 Admission Onwards

C3CEEA75

Time: 3 Hours Max. Marks : 60

Part A

*Answer any **ten** questions.*

*Each question carries **1** mark.*

1. Who coined the term cell?
2. Who discovered cell?
3. State Cell Theory.
4. Give the term for the protoplasm outside the nucleus.
5. Give one example for cell membrane receptor.
6. What is meant by phagocytosis?
7. Who discovered Golgi complex?
8. Suicidal bags of the cells.
9. Which are the different steps of oxidative phosphorylation?
10. Name the primary photon acceptor in photosynthesis.
11. What are the different phases of cell cycle?
12. Mitotic division takes place in which types of cells.

(10×1=10)

Part B

*Answer any **six** questions.*

*Each question carries **5** marks.*

13. Which are the main differences between plant and animal cells?
14. Write briefly about the chemical composition of cell membrane.
15. Write short note on Desmosomes.
16. Draw a neat labeled diagram of nuclear pore complex.
17. Write a short note on the functions of two types of endoplasmic reticulum.
18. Explain cyclic photophosphorylation.
19. What is the calvin cycle and what does it produce?
20. Which are the different types of cell cycle regulators?
21. Write an account on cell death.

(6×5=30)

Part C

*Answer any **two** questions.*

*Each question carries **10** marks.*

22. Draw a neatly labelled diagram of the plasma membrane and explain the different functions of the parts labelled and mention the functions of the plasma membrane.
23. Write an essay on cytoskeleton.
24. Write an essay on the structure of Mitochondria and briefly explain the function.
25. Explain the events in meiosis with suitable diagrams.

(2×10=20)