BSc Biotechnology Model Question Paper
Semester I
BT1CRT01 BASIC LIFE SCIENCES

Time: 3 hrs **Max. marks : 60**

PART A
Answer any 10 questions. Each question carries one mark.

1. Gibberellins
2. micturition
3. BMR
4. Autotroph
5. Transpiration
6. Chlorophyll
7. Depolarisation
8. Photoperiodism
9. Alveoli
10. Microvilli
11. Macrophages
12. ADH

10 x 1 = 10 marks

PART B
Answer any 6 questions. Each question carries five marks.

13. Regulation of respiration.
14. Give notes on: PABA, Dopamine, serotonin.
15. CAM plants.
16. Effect of cytokinins and auxins on plant growth
17. Mechanism of Transpiration
18. Structure of neuron.
19. Micronutrients
20. Structure and function of hemoglobin.
21. Functions of lymph.

6 x 5 = 30 marks

PART C
Answer any 2 questions. Each question carries ten marks.

22. Explain the structure of nephron in relation to its functions.
23. Describe synaptic transmission.
24. Explain the types and functions of digestive juices.
25. Discuss the types of movements observed in plants.

10 x 2 = 20 marks

BSc Biotechnology Model Question Paper
Semester I
BT1CRT02 METHODOLOGY IN BIOTECHNOLOGY

Time: 3 hrs Max. marks : 60

PART A
Answer any 10 questions. Each question carries one mark.

1. Define fermentation.
2. Bermuda principles.
3. Trademark
4. Lactic acid bacteria
5. Chimeric DNA.
6. Nanocrystal
7. Quantum dots.
8. Mention any four advantages of bioprocess.
9. NCBI
10. Minimal cell.
11. Marker gene.
12. HGP Write.

10 x 1 = 10

PART B
Answer any 6 questions. Each question carries five marks.

13. Restriction enzymes.
14. Buffalo cloning in India.
15. Marine fermented food.
16. Principle of cloning.
17. Discuss merits and demerits of GMO.
18. Nanotechnology in drug delivery.
19. Improvement of fish production through Biotechnology.
20. Biotechnology in space research..
21. Good manufacturing practices.

6 x 5 = 30

PART B
Answer any 2 questions. Each question carries ten marks.

22. Explain the term White biotechnology and its applications.
23. Describe the steps of patenting procedure.
24. Give an account on Human genome project.
25. Discuss the synthesis and applications of artificial cells..

2 x 10 = 20