



23104624

QP CODE: 23104624

Reg No :

Name :

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

First Semester

B.Sc Biotechnology Model III

Core Course - BT1CRT01 - BASIC LIFE SCIENCES

2017 Admission Onwards

A2484523

Time: 3 Hours

Max. Marks : 60

Part A

*Answer any **ten** questions.*

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

1. What is active absorption?
2. Name two digestive enzymes.
3. What is apnoea?
4. What are lymphoid organs?
5. Which are the two types of nephrons in mammals?
6. What is proteinuria?
7. What is electrical synapses?
8. Name any two gaseous neurotransmitters?
9. What is ascent of sap?
10. Differentiate micronutrients from macronutrients.
11. Differentiate tropic movement from tactic movement.
12. What is devernalization?

(10×1=10)

Part B

*Answer any **six** questions.*

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

13. Write the composition and functions of bile.
14. Discuss on the storage of nutrients in the body.
15. Explain Ornithine cycle.





16. Explain sympathetic and parasympathetic nervous system.
17. How a nerve impulse is transmitted along its axon?
18. Explain structure of chloroplast with a diagram.
19. Steps of Calvin cycle.
20. Describe the functions of gibberellins and abscisic acid.
21. Write short note on photoperiodism.

(6×5=30)

Part C

*Answer any **two** questions.*

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

22. Describe the structure, function and disorders of hemoglobin.
23. Explain the mechanism of urine formation in mammals.
24. Describe the neurological disorders due to degeneration of components of nerves.
25. Give an account of mechanism of photosynthesis involving both cyclic and noncyclic photophosphorylation.

(2×10=20)

