



QP CODE: 21102422



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Reg No :

Name :

B.Sc.DEGREE (CBCS) EXAMINATIONS, OCTOBER 2021

First Semester

B.Sc Biotechnology Model III

Core Course - BT1CRT01 - BASIC LIFE SCIENCES

2017 Admission Onwards

B69779F1

Time: 3 Hours

Max. Marks : 60

Part A

*Answer any **ten** questions.*

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

1. What are the digestive enzymes in stomach?
2. What is inhalation ?
3. What is sickle cell anaemia?
4. What are uricotelics?
5. What are collecting tubules?
6. What is indicanuria?
7. What is the function of myelin sheath?
8. What is inhibitory neurotransmitters?
9. What is water table?
10. What is light harvesting complexes (LHC)?
11. What is nastic movement?
12. What is vernalization?

(10×1=10)

Part B

*Answer any **six** questions.*

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

13. Briefly explain the mechanism of absorption of carbohydrates.
14. Explain the structure of digestive tract with a neat labelled diagram.
15. What are the factors affecting glomerular filtration?
16. Briefly explain the structure of brain.
17. What is the significance of threshold potential in nerve impulse conduction?





18. Explain the role of macronutrients in plant growth.
19. Differentiate cyclic photophosphorylation from noncyclic photophosphorylation.
20. Explain the role of cytokines and auxins in plants.
21. Compare and contrast short day plants and long day plants.

(6×5=30)

Part C

*Answer any **two** questions.*

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

22. Explain storage and mobilization of food reserves in animal system.
23. Describe in detail the structure and functions of lymphatic system?
24. Write an essay on synaptic events in a neuro muscular junction.
25. Describe “Dark reaction” in photosynthesis. How does it take place in C3 plants?

(2×10=20)

