



22102152

QP CODE: 22102152

Reg No : .....

Name : .....

**B.Sc.DEGREE (CBCS) REGULAR / IMPROVEMENT / REAPPEARANCE  
EXAMINATIONS, JULY 2022**

**First Semester**

B.Sc Biotechnology Model III

**Core Course - BT1CRT01 - BASIC LIFE SCIENCES**

2017 Admission Onwards

14450EC1

Time: 3 Hours

Max. Marks : 60

**Part A**

*Answer any **ten** questions.*

*Each question carries 1 mark.*

1. Define RDA.
2. What is gastric lipase?
3. Normal value of hemoglobin in males and females and its significance.
4. What are Ureotelics?
5. What are collecting tubules?
6. What is meant by ketone bodies?
7. What is irritability?
8. Name two chemical neurotransmitters.
9. What is symplastic pathway?
10. Describe functions of nitrogen and carbon as plant nutrient.
11. Define photoperiodism.
12. What is florigen?

(10×1=10)

**Part B**

*Answer any **six** questions.*

*Each question carries 5 marks.*





13. Explain the structure of digestive tract with a neat labeled diagram.
14. Discuss on the storage of nutrients in the body.
15. How does glomerular filtration take place?
16. What is efferent and afferent neurons?
17. Explain chemical transmission of nerve impulse.
18. Explain Kranz leaf anatomy in C4 plants.
19. Explain the 'Z' scheme in photosynthesis.
20. Explain the role of cytokines and auxins in plants.
21. Give an account of tactic movements.

(6×5=30)

### Part C

*Answer any **two** questions.*

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

22. Draw a neat labeled diagram of the structure of respiratory system and explain the mechanism of respiration.
23. Describe in detail the structure and functions of lymphatic system?
24. Which are the types of synapses? Write an account on the steps involved in chemical and electrical synaptic transmission.
25. Describe in detail the Calvin cycle.

(2×10=20)

