



QP CODE: 26019520



Reg No :

Name :

M.Sc DEGREE (CSS) EXAMINATION, MARCH 2026

Fourth Semester

M Sc BIOTECHNOLOGY

ELECTIVE - BT840401 - PHYSIOLOGY AND BIOTECHNOLOGY

2019 Admission Onwards

3ACAB268

Time: 3 Hours

Weightage: 30

Part A (Short Answer Questions)

*Answer any **eight** questions.*

*Weight **1** each.*

1. Write a note about albumin.
2. Write a note on Tissue factor.
3. Define Nephrotic syndrome.
4. Define obligatory urine volume.
5. What is Neuroglia?
6. Write a note on Fluorophores.
7. What is Light reaction?
8. What is the role of enzyme in producing Biofuels?
9. Osmosis.
10. Vernalin.

(8×1=8 weightage)

Part B (Short Essay/Problems)

*Answer any **six** questions.*

*Weight **2** each.*

11. Give an example for the production of clotting factors by R DNA technology.
12. Summarize types of blood culture methods.





13. With the help of a diagram explain counter current multiplier & exchange system in renal tubules.
14. Define respiratory volume. Add a note on the types of respiratory volume.
15. What are Neurotransmitters?
16. Write short note on Hill Reaction.
17. Comment on the role of macro-nutrients in plants.
18. Explain tropic movements in plant.

(6×2=12 weightage)

Part C (Essay Type Questions)

*Answer any **two** questions.*

Weight 5 each.

19. Describe the events involved in cardiac cycle in detail.
20. Describe in detail about organ culture, various types and its major applications.
21. Describe the Endocrine glands and Functions.
22. Describe the mechanism of respiration in CAM plants and compare it with photorespiration.

(2×5=10 weightage)

