



QP CODE: 25024787



25024787

Reg No :

Name :

M.Sc DEGREE (CSS) EXAMINATION, APRIL 2025
Fourth Semester
M Sc BIOTECHNOLOGY
ELECTIVE - BT840401 - PHYSIOLOGY AND BIOTECHNOLOGY
2019 ADMISSION ONWARDS
7C7083DC

Time: 3 Hours

Weightage: 30

Part A (Short Answer Questions)

*Answer any **eight** questions.*

Weight 1 each.

1. What is dot blot technique?
2. What is pulse pressure?
3. What are the factors affecting glomerular filtration?
4. Define Haldane effect.
5. What are Nissls body?
6. Write a note on Markers for Cell culture.
7. What is Light reaction?
8. What are antitranspirants?
9. Comment on ascent of sap.
10. List two Commercial applications of auxin.

(8×1=8 weightage)

Part B (Short Essay/Problems)

*Answer any **six** questions.*

Weight 2 each.

11. Summarize types of blood clotting factors.
12. Explain the importance of ABO blood groups in blood transfusion.
13. Why there is pulmonary edema in rapid ascent?
14. Why cyanosis doesn't occur in histotoxic hypoxia?
15. Explain the Muscle tone.





16. Explain the significance of reverse photosynthesis in the production of Biofuels.
17. Explain autonomic growth movements.
18. Discuss on the factors affecting vernalization.

(6×2=12 weightage)

Part C (Essay Type Questions)

*Answer any **two** questions.*

Weight 5 each.

19. Explain the composition of blood in detail.
20. Define Glomerular Filtration Rate (GFR), Explain the factors regulatory GFR, add a note on method of measurement of GFR.
21. Describe the Endocrine glands and Functions.
22. Point out the differences between phosphorylation and Oxidative phosphorylation.

(2×5=10 weightage)

