



QP CODE: 20101163



20101163

Reg No :

Name :

B.Sc. DEGREE (CBCS) EXAMINATION, NOVEMBER 2020

Second Semester

B.Sc Zoology Model I

Complementary Course - BO2CMT02 - BOTANY-PLANT PHYSIOLOGY

2017 ADMISSION ONWARDS

BB077097

Time: 3 Hours

Max. Marks : 60

Part A

*Answer any **ten** questions.*

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

1. Write any one significance of osmosis in plants.
2. Mention any one practical application of plasmolysis.
3. What is apoplastic pathway?
4. What is the significance of anti-transpirants?
5. What is PAR?
6. What is grana?
7. What are the accessory photosynthetic pigments?
8. What is a reaction centre?
9. What is quantum requirement?
10. Why C4 cycle got that name?
11. Name the apparatus used to measure plant growth.
12. What is phytochrome?

(10×1=10)

Part B

*Answer any **six** questions.*

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

13. With the help of suitable diagram explain the structure of hydathodes?
14. Transpiration is called a "necessary evil". Justify your answer?





15. Give an account on the mechanism of stomatal opening?
16. Give a brief note on deficiency symptoms of mineral elements N, P & K.
17. What are the basic requirements of Photosynthesis.
18. Give the difference between phosphorescence and fluorescence.
19. Explain the Mass flow hypothesis of phloem translocation.
20. Write a short note on physiology of seed germination.
21. Comment on the physiological role of auxins in plants.

(6×5=30)

Part C

*Answer any **two** questions.*

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

22. Describe the mechanism of water absorption in terrestrial plants.
23. Explain the different steps of C3 cycle.
24. Explain the factors affecting photosynthesis.
25. Describe the factors affecting seed dormancy. Comment on the mechanisms to break seed dormancy in plants.

(2×10=20)

