



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)

