

Name:Reg.No.....

BSC DEGREE END SEMESTER EXAMINATION APRIL - 2015
SEMESTER - 2: BOTANY (COMPLEMENTARY COURSE)
COURSE: U2CPBOT2 - PLANT PHYSIOLOGY

Time: 3 Hours

Max. Marks: 60

I. Answer all questions briefly: Each question carries 1 mark

1. What is meant by plasmolysis?
2. Define DPD.
3. Name the fruit ripening hormone.
4. What is Sigmoid Curve?
5. What is phytochrome?
6. What are antitranspirants?
7. Write on the function of ABA.
8. What is auxanometer? (1 x 8 = 8)

II. Answer any six questions. Each question carries 2 Marks.

9. What is Guttation?
10. Explain Munch Flow hypothesis?
11. What is Red drop and Emerson enhancement effect?
12. List the external factors affecting the rate of photosynthesis.
13. Differentiate between senescence and abscission.
14. What is meant by vernalisation?
15. What is osmosis?
16. What is meant by nitrogen fixation? (2 x 6 = 12)

III. Answer any four questions. Each question carries 5 Marks.

17. Differentiate between Tropic and Nastic movements in plants?
18. What is meant by Salt Stress? How does plant adapt to salt stress?
19. What are plant growth hormones? Give an account on the natural growth hormones?
20. Explain on the mechanism of stomatal transpiration?
21. Explain Photoperiodism?
22. Differentiate between PS I and PSII (5 x 4 = 20)

(PTO)

IV. Answer any two questions. Each question carries 10 Marks.

23. Write an essay on the active absorption of water. How is it different from passive absorption?
Or

24. What are CAM Plants? Explain the CAM Pathway?

25. Define dormancy? Explain on the factors responsible for dormancy of seeds? What are the techniques to break dormancy?
Or

26. With Schematic representations explain C3 Pathway?

(10 x 2 = 20)
