TB142050C	Reg. No :
	Name :

B. Sc. DEGREE (CBCSS) EXAMINATION, APRIL 2015 SECOND SEMESTER - COMPLEMENTARY COURSE (BOTANY) BOT2 PP – PLANT PHYSIOLOGY

Time: 3 Hours Maximum: 60 Marks

Part A Answer *all* questions.Each question carries 1 mark.

- 1. What are antitranspirants?
- 2. Explain DPD.
- 3. What is Solar spectrum?
- 4. Comment on Nitrogen cycle.
- 5. What are C4 plants?
- 6. What is a sigmoid curve?
- 7. Write about synthetic auxins.
- 8. Describe capillary theory.

(8x1=8Marks)

Part B Answer any six questions. Each question carries 2 marks.

- 9. Briefly explain ringing experiment.
- 10. Explain the effects of water stress.
- 11. What is non-cyclic photophosphorylation?
- 12. Describe the structural peculiarities of CAM plants.
- 13. Differentiate diffusion and osmosis.
- 14. What is seed dormancy? Comment on its significance.
- 15. Describe two methods for measurement of growth.
- 16. What is electron transport system?
- 17. Comment on plant cell as an osmotic system.
- 18. Differentiate tropic and nastic movements.

(6x2=12Marks)

- 19 Describe the factors affecting photosynthesis.
- 20. Explain the mechanism of stomatal transpiration.

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- 21. Differentiate active and passive absorption.
- 22. Describe the pigment systems involved in photosynthesis.
- 23. Explain geotropism with suitable examples.
- 24. What are the factors causing seed dormancy?

(4x4=16 Marks)

Part D Answer any *two* questions. Each question carries 12 marks

- 25. Describe the various types of Nitorgen fixation.
- 26. Translocation of food takes place through phloem. Justify.
- 27. Transpiration is a necessary evil. Explain.
- 28. Explain the various reactions of Calvin cycle.

(2x12=24Marks)