Reg. No…….…….. **Name**…… **18U242**

B. Sc. DEGREE END SEMESTER EXAMINATION – MARCH / APRIL 2018

SEMESTER – 2: BOTANY (COMPLEMENTARY FOR ZOOLOGY)

COURSE: **15U2CPBOT2– PLANT PHYSIOLOGY**

(Common for Regular 2017/Supplementary-improvement 2016/2015 Admission)

Time: Three Hours Max. Marks: 60

PART A

Answer all questions.

1. What is PAR?
2. What is RUBISCO?
3. What is incipient plasmolysis?
4. Define D P D
5. Expand CAM.
6. What is guttation?
7. Define water potential
8. Name a volatile hormone (1 x 8 = 8)

PART B

Answer any 6 questions of the following.

9. Write note on vernalization
10. Explain Red drop and Emmerson's enhancement effect.
11. What is abscission?
12. Explain the role of ethylene in plant growth.
13. Describe the role of cytokinin in morphogenesis
14. What is optical dominances?
15. What is photoblastism?
16. Comment on Krantz anatomy?
17. What is nyctinastic movements?
18. What are primary and accessory pigments (2 x 6 = 12)

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PART C

Answer any 4 questions of the following.

19. Give an account on auxin in plant growth and development
20. Write a note on water stress.
21. Write a note on photoperiodism
22. Difference between imbibition and osmosis
23. What are the internal factors affecting seed dormancy
24. Explain Munch mass flow of hypothesis

(4 x 4 = 16)

PART D

Answer any 2 questions of the following.

25. Describe stomatal transpiration with significance and factors affecting it.

OR

26. Critically evaluate C3 and C4 pathway with emphasis on biomass production.

27. Give an illustrated account of light reaction in green plants.

OR

28. Give an account on plant movements. (12 x 2 = 24)

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