

B. Sc. DEGREE END SEMESTER EXAMINATION - MARCH 2019**SEMESTER – 6: BOTANY (CORE COURSE)****COURSE: 15U6CRBOT09: PLANT PHYSIOLOGY AND BIOCHEMISTRY***(Common for Regular - 2016 Admission / Supplementary-Improvement 2015 Admission)*

Time: Three Hours

Max. Marks: 60

PART - AI. Answer **ALL** questions; each question carries **1** mark.

1. What is RQ?
2. Name the hormone associated with ripening of fruits.
3. What is meant by vernalization?
4. What are Zymogens?
5. What are Epimers?
6. Define Plasmolysis.
7. What is DonnanEquilibrium?
8. Define Km.

(1 x 8 = 8)

PART - BII. Answer **ANY SIX** questions; each question carries **2** marks.

9. What are Antitranspirants.
10. What are Enzyme cofactors
11. Write a note on Allelochemicals.
12. What are Phospholipids.
13. What is RUBISCO
14. Write a note on Essential aminoacids.
15. Explain Role of lipids in plants.
16. Differentiate Active and passive absorption
17. Explain β Oxidation
18. Describe Embden-Meyerhof-Parnas pathway

(2 x 6 = 12)

PART - CIII. Answer **ANY FOUR** questions; each question carries **4** marks.

19. Explain the classification of Carbohydrates. Give examples.
20. Explain Calvin cycle.
21. Discuss the significance of transpiration.
22. Explain law of limiting factor.
23. Describe phloem loading and unloading.
24. Give an account on CAM plants.

(4 x 4 = 16)

PART - D

IV. Answer **ANY TWO** questions; each question carries **12** marks.

25. Give an account of Electron transport system and Oxidative phosphorylation.

OR

26. Explain the mechanism of enzyme action and factors affecting it.

27. What are plant hormones? Explain the different types of hormones and their biological role.

OR

28. What are essential elements? Mention their importance?

(12 x 2 = 24)
