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Date : 10-4-19

**ST. JOSEPH’S COLLEGE (AUTONOMOUS), BENGALURU-27**

**III B.Sc. – VI SEMESTER**

**SEMESTER EXAMINATION: APRIL 2019**

**BO 6115 : Plant Physiology**

Time- 2 ½ hrs Max Marks-70

**SUPPLEMENTARY CANDIDATES ONLY**

**This paper contains ONE printed page and THREE parts**

**Draw diagrams and write examples where necessary**

1. **Define any TEN of the following in two or three sentences 10 × 2 = 20**
2. Plasmolysis
3. Heat of wetting
4. Foliar nutrition
5. Vein loading
6. Mass flow hypothesis
7. Photosystems
8. Kranz anatomy
9. Blackmann's law of limiting factors
10. Alcohol fermentation
11. RQ
12. Florigen
13. Tropic movements
14. **Write critical notes on any FIVE of the following 5 × 6 = 30**
15. Cohesion- Tension theory
16. Antitranspirants
17. Functions and deficiency symptoms of essential macronutrients in plants
18. Root nodule formation in legumes
19. Photorespiration
20. Factors affecting rate of respiration
21. Methods of breaking seed dormancy
22. **Give a comprehensive account of any TWO of the following 2 × 10 = 20**
23. Explain glycolysis and add a note on its energetics
24. Carbon fixation pathway in CAM plants
25. Role of auxins and gibberellins in plant growth and development

BO-6115-A-19