**ST. JOSEPH’S COLLEGE (AUTONOMOUS), BENGALURU-560 027**

**B.Sc BOTANY –VI SEMESTER**

**SEMESTER EXAMINATION –APRIL 2018**

**BO-6115 : PLANT PHYSIOLOGY**

**Time: 2½ Hours Max. Marks : 70**

**This question paper has ONE printed page and THREE parts.**

**Draw diagrams wherever necessary**

**A. Write on any TEN of the following in one or two sentences each 10x2=20**

1. Antitranspirants

2. Foliar nutrition

3. Phytochrome

4*.* Oxidative phosphorylation

5. Leg haemoglobin

6. Cristae

7. Thylakoid membrane

8. RUBISCO

9. RQ

10. Emerson’s Enhancement Effect

11. Biological clock

12. BARS

**B. Write critical notes on any FIVE of the following: 5x6=30**

13. Cohesion-tension theory of Dixon and Jolly

14. Macro-elements and their functions in the plants

15. Methods of breaking dormancy

16. Munch flow hypothesis

17. Glycolysis

18. CAM pathway

19. Cyclic and non-cyclic photophosphorylation

**C. Give a comprehensive account of any TWO of the following 2x10=20**

20. Physiological effects of auxins in plants

21. Pentose phosphate pathway and its significance

22. Differences between C3 and C4 plants. Add a note on Kranz anatomy

**BO-6115-C-18**