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Register Number:

DATE: **14** **-04-2018 (1PM)**

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

**B.Sc. BOTANY- VI SEMESTER**

**SEMESTER EXAMINATION: APRIL - 2018**

**BO: 6115 - Plant Physiology**

**TIME: 2 ½ Hrs 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: 10 x 2 = 20**

1. Scarification
2. Richmond-Lang effect
3. Deficiency symptoms of Mg ++
4. Differentiate Cohesive force and adhesive force
5. Respiratory Quotient
6. Photophosphorylation
7. Photoperiodism
8. Thigmonasty
9. Hydroponics
10. Second Law of Thermodynamics
11. Protoplasmic streaming hypothesis
12. Peroxisomes

**B. Write critical notes on any FIVE of the following: 5 x 6 =30**

13. Electron Transport System

14. Water Potential and its components

15. Glycolytic pathway

16. Ultrastructure of thylakoid membrane

17. Mechanism of stomatal movement

18. Blackmann’s law of Limiting factors

19. Mechanism of Biological Nitrogen Fixation.

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**C. Give a comprehensive account of any TWO of the following: 2 x 10 = 20**

20**.** Mechanism of Carbon fixation in C3 plants

21. Factors affecting the rate of respiration

22. Explain Vernalization and its significance

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