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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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