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

**B.Sc. BOTANY – VI SEMESTER**

**SEMESTER EXAMINATION: APRIL 2023**

**(Examination conducted in May 2023)**

**BO 6118 – PLANT PHYSIOLOGY AND PHYTOCHEMISTRY**

**Time – 2 ½ hours Max Marks - 70**

**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**

1. DPD

2. Deficiency symptoms of Nitrogen

3. Autoradiography

4. RQ

5. p-proteins

6. Cytoplasmic streaming

7. Kranz anatomy

8. Anaerobic respiration

9. Florigen

10. Thigmonasty

11. Richmond-Lang effect

12. Acetyl-CoA

1. **Write critical notes on any FIVE of the following 5 × 6 = 30**

13. Cohesion-tension theory of Dixon and Joly

14. Antitranspirants

15. Types of hydroponic systems

16. Methods of breaking seed dormancy

17. Chemiosmotic hypothesis

18. Photorespiration

19. Photoperiodism

1. **Give a comprehensive account of any TWO of the following 2 × 10 = 20**

20. Mechanism of C3 Cycle

21. Factors affecting the rate of respiration

22. Role of Auxins and Ethylene in plant growth

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