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

SUPPLEMENTARY EXAMINATION APRIL 2018

**B.Sc., BOTANY: VI SEMESTER**

**BO 6112 Plant Physiology**

Time: 3 hours Maximum Marks: 100

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

Draw diagrams and give examples wherever necessary.

(For supplementary candidates)

Do not write the register number on the question paper

Please attach the question paper along with the answer script.

**A) Answer any TEN of the following in two or three sentences each: 10 x 2 = 20**

1. DPD

2. Imbibition

3. Hydroponics

4. Permanent wilting percentage

5. Siderophores

6. Vernalization

7. Florigen

8. Autoradiography

9. Trace elements

10. Permeability

11. *Fusarium moniliformae*

12. Day neutral plants

**B) Write critical notes on any FIVE of the following: 5 x 7 = 35**

13. Fluid mosaic model of Plasma membrane.

14. K+ ion concept in stomatal movements.

15. Munch’s hypothesis of phloem transport.

16. Cytokinins and their physiological effects.

17. Factors affecting plant growth.

18. Cohesion-tension theory of water translocation.

19. Factors affecting transpiration in plants.

**C) Give a comprehensive account of any THREE of the following: 3 x 15 = 45**

20. Three theories of active transport of minerals in plants.

21. Dormancy and the methods of breaking dormancy.

22. Movement of curvature in plants.

23. Auxins, Abscisic acid, Ethylene and their roles in plant growth and development.

24. Functions of any five essential elements in plants and their deficiency symptoms

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