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Register Number:

DATE: **9** **-04-2018 (1PM)**

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

**M.Sc.BOTANY –I I SEMESTER**

**SEMESTER EXAMINATION – APRIL 2018**

**BO 8115: Plant Morphogenesis and Reproduction**

**Time: 2½hrs. Max. Marks: 70**

 **This question paper has ONE printed page and THREE parts Instructions: Draw diagrams and write examples wherever necessary**

**A. Write on any TEN of the following in one or two sentences: 10 x 2=20**

1. LFY Gene

2. Aleurone cell

3. Field concept

4. Filiform apparatus

5. Campylotropous ovule

6. Meristemoid

7. Pseudomonad

8. Phyton theory

9. Cleavage polyembryony

10. Nemec phenomenon

11. Ubisch bodies

12. GSI

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

13**.** ABC model of flower development

14. Phyllotaxis

15. Embryo-endosperm relationship

16. Development of male gametophyte in angiosperm

17. Transformation of vegetative apex into reproductive apex

18. Development of embryo in *Najas*

19. Experimental studies on shoot apex

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

20. Apomixis and its types

21. Theories on nature of flower

22. a) Helobial endosperm b) Stigma and its functions

 BO-8115-A-18