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Date:10-04-2019

Reg no:

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

**M.Sc. BOTANY – IISEMESTER**

**SEMESTER EXAMINATION-APRIL2019**

**Bo: 8218- Plant Morphogenesis And Embryology**

**Time: 2½hrs. Max. Marks: 70**

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

**Instructions:Draw diagrams and write examples wherever necessary**

1. **Explain any TEN of the following in one or two sentences: 2x10=20**
2. Morphogenesis
3. Ubisch bodies
4. Contact parastichies
5. Differentiation
6. Polyspermy
7. Phyton
8. Polyembryony
9. Campylotropous ovule
10. Heterofertilization
11. Repulsion theory
12. MADS box genes
13. GSI
14. **Write Critical notes on any FIVE of the following 5x6=30**
15. ABCDE model of flower development
16. Experimental studies on differentiated organs
17. Types and functions of stigma
18. Theories on Morphological nature of flower
19. a) Nemec phenomenon b) Male germ-unit
20. Ultra-structure of female gametophyte
21. Embryo-Endosperm relationship
22. **Give a comprehensive account of any TWO of the following 10x2=20**
23. Transformation of vegetative apex into reproductive apex
24. Embryo development in *Capsella* and compare dicot embryo with monocot embryo
25. Structure of anther wall b) Barriers to fertilization

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