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Register Number:

DATE: 10-04-2017

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

**M.Sc. BOTANY-II SEMESTER**

**SEMESTER EXAMINATION, APRIL 2017**

**BO: 8115 Morphogenesis and Reproduction**

**Time: 2 ½Hrs Max Marks: 70**

**\**This Question paper has one printed page and three parts***

***\* Draw diagrams wherever necessary***

**A. Explain briefly / Define any TEN of the following: 2 x 10 = 20**

1. Meristemoid
2. Heterofertilization
3. MADS box genes
4. Apomixis
5. Obturator
6. First available space theory
7. Phyton
8. Ubisch bodies
9. Tenuinucellate ovule
10. Gametophytic Self Incompatibility
11. Telome theory
12. Ruminate endosperm

**B .Write a short account of any FIVE of the following: 6 x 5 = 30**

13.Types of stigma and its functions

14. Callose and its role in Microsporogenesis

15.Experimental studies on shoot apex

16. ABC model

17. Embryo development in *Capsella*

18. Male germ unit and Sperm dimorphism

**C. Write a comprehensive account on any TWO of the following: 10 x 2 =20**

19. Appendicular and Axial theories of inferior ovary

20. Explain the structure of mature anther in angiosperms with labeled diagrams

21. Polyembryony

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