 Register Number:

Date:

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

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

**SEMESTER EXAMINATION: APRIL 2020**

**BO 8218- Plant Morphogenesis and Embryology**

**Time- 2 1/2 hrs Max Marks-70**

**This paper contains one printed page and three parts**

**Draw diagrams wherever necessary**

**A.** Answer **any ten** of the following in two to three sentences 10X2=20

1. Meristemoid
2. Alternate phyllotaxy
3. Organ *Sui generis*
4. Cellular level of organisation
5. MADS domain
6. Amoeboid tapetum
7. Nemec phenomenon
8. Embryosac haustoria
9. Single fertilization
10. Stylar inhibition
11. Apomixis
12. Chimeral embryos

**B.** Write critical notes on **any five** of the following 5X6=30

13. Theories of Nature of shoot

14. ABCDE model

15. Male germ unit

16. Ultra structure of female gametophyte

17. Role of stigmatic exudates in fertilization

18. Barriers in fertilization

19. Embryo-endosperm relation

**C.** Give a comprehensive account of **any two** of the following 2X10=20

19. Role of growth hormones in vascular differentiation

20. Differentiation of anther wall and their role

21. Early embryogenesis in *Najas*

BO 8218\_B\_20