

**Register Number:**

**Date:**

**St. Joseph’s College (Autonomous), Bangalore-560027**

**M.Sc Botany II Semester**

**Semester Examination –April 2020**

**BO 0318 – PLANT BREEDING AND PLANT PROPAGATION**

**Time: 2 ½ hrs. Max. Marks: 70**

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

**Draw diagrams wherever necessary**

1. **Explain or define any TEN of the following in two or three sentences 10x2=20**
2. Fairchild’s mule
3. Any two barriers in distant hybridization
4. Germplasm regeneration
5. Significance of *Pogostemon* cultivation
6. Mulching
7. Vermiculite
8. Significance of Back crossing
9. Can you grow a Rose bush from a cut flower? Explain
10. Cultivation techniques of *Rauwolfia*
11. Bulbs
12. Apomixis
13. Biochemical markers
14. **Write critical notes on any FIVE of the following 5x6=30**
15. Plant introduction & acclimatization
16. Genetic basis of heterosis
17. Explain any three types of grafting
18. Methods involved in the cultivation of Orchids
19. Explain the steps involved in obtaining *Anthurium* in the market, after harvesting
20. Cladding materials used in plant propagation
21. Breeding methods for drought resistance
22. **Write a comprehensive account of any TWO of the following 2x10=20**
23. Hybridization in cross pollinated plants
24. Enumerate the steps in Apple cultivation until marketing
25. Steps involved the production & maintenance to obtain quality seeds

BO-0318-B