 Register Number:

Date:

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

**M.Sc. BOTANY - IV SEMESTER**

**SEMESTER EXAMINATION: APRIL 2020**

**BO 0518- Systematics of Angiosperms**

**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. APG

2. Paraphyly

3. Convergent evolution

4. Ecad

5. Mechanical isolation

6. Open ended flora

7. Cladogram

8. DELTA

9. Electronic herbarium

10. Chloroplast DNA

11. P proteins

12. Disc electrophoresis

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

13. Dahlgrens’ system of classification

14. *Isoetes*-monocot theory

15. Comparative account on homology and analogy

16. Stabilization of hybrids

17. Post zygotic isolating mechanisms

18. California transect experiment

19. Computer based mapping in plant distribution

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

20. Species concept

21. Coniferales-Amentiferae theory & Pentoxylales ancestry of Angiosperms

22. Proteins form taxon A and taxon B is extracted and are injected intravenously into the ear vein of the rabbit, antiserum is collected and analyzed. Discuss the technique involved and its role in taxonomy.

BO-0518-B-20