**ST. JOSEPH’S COLLEGE (AUTONOMOUS), BENGALURU – 560 027**

**M.Sc. BOTANY – IV SEMESTER**

**SEMESTER EXAMINATION: APRIL 2023**

**(Examination conducted in May 2023)**

**BODE 0521 – Systematics of Angiosperms**

**Time – 2 ½ hours Max Marks - 70**

**This paper contains ONE printed sheet and THREE parts**

**Draw diagrams and write examples wherever necessary**

1. **Explain/Define any TEN of the following in one or two sentences 10x2=20**
2. Phylograms
3. RFLP
4. Stachyspory-phyllospermae theory
5. Plant identification packages
6. Open ended Floras
7. ANITA Grade
8. cDNA libraries
9. Ecophenes
10. Gradual speciation
11. Electronic herbarium
12. GIS
13. Rolf M. T. Dahlgren
14. **Write critical notes on any FIVE of the following 5x6=30**
15. Bessey’s System of classification
16. Hybridization and speciation
17. Turresson’s experiment
18. Cluster analysis in plant systematics
19. Primitive Vs. Advanced characteristic features in plant systematics
20. Gnetalean theory on origin of angiosperms
21. Nominalistic and typological species concept
22. **Give a comprehensive account on any TWO of the following 2x10=20**
23. Isoetes-monocotyledon and Durian theories on origin of Angiosperms
24. Methods of protein analysis and protein data in plant systematics.
25. Isolating mechanisms.

BODE\_0521\_A\_23