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Register Number:

DATE:

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

**B.Sc. BOTANY –IV SEMESTER**

**SEMESTER EXAMINATION - APRIL-2017**

**BO 415: Embryology of Angiosperms, Palynology**

**and Environmental Biology**

**Time: 1 ½ hr Max.Marks:35**

**This question paper has ONE printed page and THREE parts Instructions: Draw diagrams and write examples wherever necessary**

**A. Explain/ Define any FIVE of the following in one or two sentences 5x2=10**

1. Dedifferentiation

2. Acid rain

3. Colpate pollen grain

4. Commensalism

5. Endothelium

6. Food web

7. Scutellum

**B. Write Critical notes on any THREE of the following 3x5=15**

8**.** Embryo culture and its significance

9. Exine stratification

10. Light as an ecological factor

11. Anther wall tapetum

12. Fritillaria type of embryo sac

**C. Give a comprehensive account of any ONE of the following 1x10=10**

13. Ecological succession in hydrosere

14. a) Free nuclear endosperm b) Ultra structure of an egg apparatus

BO-415-A-17