**DATE: 23-04-2019**

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

**B.Sc. BOTANY –IV SEMESTER**

**SEMESTER EXAMINATION - APRIL-2019**

**Bo 415: Embryology Of Angiosperms, Palynology& Environmental Biology**

**Time: 1½ hrs Max.Marks:35**

**Supplementary candidates only.**

**Attach the question paper with the answer booklet**

**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. Scutellum

2. Periplasmodial layer

3. Commensalism

4. Dedifferentiation

5. Tricolpate pollen

6. Ecological pyramid

7. Bacula

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

8. Cytokinesis

9. Tetrasporic embryo sac development

10. Acid rain

11. Free nuclear endosperm

12. Soil profile.

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

13. Ocean ecosystem

14. Male gametophyte development

**BO415-A-19**