



Register Number:

Date: 27.10.2018

ST. JOSEPH'S COLLEGE (AUTONOMOUS), BENGALURU-27
M.Sc., BOTANY- I SEMESTER
SEMESTER EXAMINATION: OCTOBER 2018
BO-7318: PALEOBOTANY, PALYNOLOGY AND PLANT ANATOMY

Time- 2 ½ hrs

Max Marks-70

This paper contains ONE printed pages and three parts

Draw labelled diagrams and give examples wherever necessary

A. Define any TEN of the following in two or three sentences 10 x 2 = 20

1. Amber
2. Ring-porous wood
3. Concentric vascular bundle
4. Thiruvakkarai National Park
5. Pro-meristem concept
6. Impression
7. Growth ring
8. Spores of *Equisetum*
9. Summit meristem
10. Fossulate pattern
11. Quiescent centre
12. Aerobiology

B. Write critical notes on any FIVE of the following

5 x 6 = 30

13. Erdtman's Acetolysis technique and Wodehouse technique
14. Techniques to study microfossils
15. Pollen flora of honey
16. Types of major venation
17. Peel sectioning for fossils
18. Anomalous secondary growth in *Aristolochia*
19. a. Tunica-carpus theory b. Korper-Kappe theory

C. Give a comprehensive account of any TWO of the following 2 x 10 = 20

20. Types of stomata
21. Structure and activity of Vascular Cambium
22. a. Any two Air Samplers b. Exploration of coal

OCT 2018