

27-10-18

ST. JOSEPH'S COLLEGE (AUTONOMOUS), BENGALURU-27
M.Sc.BOTANY –I SEMESTER
SEMESTER EXAMINATION –OCTOBER-2018
BO 7415: PALEOBOTANY, PALYNOLOGY AND PLANT ANATOMY

Supplementary candidates only.
Attach the question paper with the answer booklet

Time: 2½hrs.

Max. Marks: 70

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

A. Explain any TEN of the following in one or two sentences: 10 x 2=20

1. Coal ball
2. Spores of *Psilotum*
3. Adolphus Brongniart
4. NPC system
5. Duramen
6. Bicollateral bundle
7. Lignite
8. Summit meristem
9. Copropalynology
10. Mestome sheath
11. Fusiform initial
12. File meristem

B. Write Critical notes on any FIVE of the following: 5 x 6=30

13. Root-stem transition
14. Exine ornamentation of pollen
15. Geological phenomena of external origin responsible for fossilization
16. Concepts of protoxylem and metaxylem
17. Quiescent centre concept
18. Types of major venation pattern according to Hickey
19. Role of aerobiology in respiratory allergy and immunology

C. Give a comprehensive account of any TWO of the following: 2 x10=20

20. a) Characteristic features and functions of tunica and corpus
b) Types of stomata based on the arrangement of subsidiary cells
21. Techniques for studying microfossils
22. a) Erdtman's acetolysis technique b) Anomalous secondary growth in *Aristolochia* stem

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