

Register Number: Date:

Max Marks-70

ST. JOSEPH'S COLLEGE (AUTONOMOUS), BANGALORE-27 B.Sc. Botany - III SEMESTER SEMESTER EXAMINATION: OCTOBER 2019 BO 318 – PTERIDOPHYTES, GYMNOSPERMS AND PALEOBOTANY

Time- 2 1/2 hrs

This paper contains <u>ONE</u> printed page and <u>THREE</u> parts

A. Answer any <u>TEN</u> of the following	10X2=20
1. Pseudofossils	
2. Ligule	
3. Amphiphloic siphonostele	
4. Annularia	
5. Eusporangiate development	
6. Circinate vernation	
7. Tyloses	
8. Shoot dimorphism in <i>Pinus</i>	
9. Manoxylic wood	
10. Pavement tissue	
11. Birbal Sahni	
12. Petrifaction	
B. Answer any <u>FIVE</u> of the following	5X6=30
13. Affinities between Ptreidophytes and Gymnosperms	
14. Calamites	
15. Heterospory – a prerequisite to seed habit	
16. Gametophytes in Lycopodium	
17. Female cone of <i>Pinus</i>	
18. Salient features of Cycadales	
19. Types of fossils	
C. Answer any TWO of the following in detail	2X10=20
20. Internal structure of sporocarp (HLS) in Marsilea	
21. Pentoxylon	
22. Secondary growth in Gnetum	
	BO318_C_19