



II Semester B.Sc. Degree Examination, September/October 2020

BOTANY

**Paper II – Bryophytes, Pteridophytes, Paleobotany,
and Gymnosperms**

(CBCS – New)

Time : 3 Hours

Max. Marks : 70

SECTION – A

I. Answer the following : (15 × 1 = 15)

1. What is algal zone?
2. What are gemmae?
3. Define Paleobotany.
4. Which plant is commonly called hornwort?
5. What is ligule? Mention its function.
6. What is circinate vernation? Give an example.
7. What are carinal canals? Mention its function.
8. What is pavement tissue? Give an example.
9. What are elaters?
10. What are integuments?
11. What is sporocarp? Give example.
12. Name plant of winged pollen grains.
13. Define the word Nucellus.
14. What is trabecula? Give example.
15. What are spur? Where do you find this?

36224

SECTION - B

(5 × 5 = 25)

II. Answer any five of the following :

16. Explain the T.S. of *Marchantia* thallus.
17. Describe the T.S. of *Lycopodium* stem with neat labelled diagram.
18. Explain the T.S. of *Rhynia* stem.
19. Describe the T.S. of coralloid root with suitable diagram.
20. Explain the T.S. of *Selaginella* strobilus with diagram.
21. Describe the L.S. of *Gnetum* ovule with labelled diagram.
22. Explain the external features of *Polytrichum*.

SECTION - C

III. Answer any three of the following :

(3 × 10 = 30)

23. Explain the T.S. of *Pinus* needle with neat labelled diagram.
 24. Describe the *Anthoceros* sporophyte with suitable diagram.
 25. Explain the L.S. of *Equisetum* cone with the help of neat labelled diagram.
 26. Explain the Stelar evolution in Pteridophytes.
 27. Describe the external character of *Cycas*.
-