

S.No. 7362

PN 15 BO 1

(For candidates admitted from 2015–2016 onwards)

M.Sc. DEGREE EXAMINATION, NOVEMBER 2023.

Botany

PLANT DIVERSITY

(Algae, Fungi, Lichens, Bryophytes, Pteridophytes,
Gymnosperms and Palaeobotany)

Time : Three hours

Maximum : 100 marks

SECTION A — (10 × 2 = 20)

Answer ALL questions

1. Name any two Freshwater algae
2. Akinetes and Heterocysts
3. Sclerotia and Rhizomorph
4. Deuteromycetes
5. Amphibians
6. Alternation of generations
7. Syngonium

8. Homosporous and Heterosporous
9. Pentoxylon
10. Compression

SECTION B — (5 × 7 = 35)

Answer ALL questions, Choosing either (a) or (b)

11. (a) Write about general Character of algae.
Or
(b) Explain about Asexual reproduction of algae.
12. (a) General Characteristic feature of Fungi.
Or
(b) Write about Economic importance of Lichens.
13. (a) Write an account on vegetative structure of *Marchantia*.
Or
(b) Write about economic importance of Bryophytes.
14. (a) Write an account an reproductive structure of *Isoetales*.
Or
(b) Describe the stelar evolution of Pteridophytes.

15. (a) Write about the *Pteridospermales*.

Or

- (b) Write about the general characters and economic importance of *Gnetales*.

SECTION C — (3 × 15 = 45)

Answer any THREE questions

16. Describe the Phylogeny and inter relationship of algae.
17. Write an essay an Structure, Reproduction and Economic importance of Lichens.
18. Write about spore Dispersal mechanism in Bryophytes.
19. Elaborate the difference between *Osmunda* and *Saavinia*.
20. Write about the classification of Gymnosperms (sporne 1965).