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Reg. No. :

Name :

First Semester M.Sc. Degree Examination, May 2024

Botany

BO 212 : BRYOPHYTA, PTERIDOPHYTA AND GYMNOSPERMS

(2006-2012 Admission)

Time : 3 Hours

Max. Marks : 75

I. Answer the following questions.

1. What are the distinguishing feature of the sporophyte of Lycopsidea?
2. What are the characteristic features of the thallus in Calobryales?
3. What is heterophylly?
4. What are Elators?
5. What is soft wood? Give example.
6. What is Peat moss?
7. Explain the distinguishing features of Zygopteris.
8. What are seed-ferns?
9. What is sporocarp in pteridophytes?
10. What is apogamy?

(10 × 1 = 10 Marks)

P.T.O.



II. Answer the following questions in not more than **50** words.

11. (a) Explain the general features of the protonema of moss.

OR

(b) What is leptosporangiate type of sporangial development?

12. (a) Differentiate monoxylic and polyxylic types of woods. Give examples.

OR

(b) Why are Caytoniales considered as 'seed ferns'?

13. (a) Write any four examples for fossil pteridophytes.

OR

(b) Write the diagnostic features of Jungermanniales.

14. (a) How are Gnetales classified?

OR

(b) What are the salient features of Bennettitales?

15. (a) Explain the Angiosperm characters of Gnetopsida.

OR

(b) What is siphonostele?

(5 × 2 = 10 Marks)

III. Answer the following questions in not more than **150** words.

16. (a) What are the evidences for the algal origin of bryophytes?

OR

(b) Describe the angiosperm features of Caytoniales.



17. (a) Explain telome theory.

OR

(b) Describe the vegetative methods of reproduction in Bryophytes.

18. (a) What are the methods of spore dispersal in pteridophytes?

OR

(b) Describe Carnoconites.

19. (a) Explain the spore producing structures in Pteropsida.

OR

(b) What were the major contributions of S.R. Kashyap in Bryophyte research?

20. (a) Explain the salient features of Pentoxylales.

OR

(b) Describe the structure of Lepidocarpon.

21. (a) Write a brief account on fossil bryophytes.

OR

(b) Describe the reproductive structures of Caytoniales

22. (a) Comment on the contributions of Prof. Birbal Sahni.

OR

(b) Briefly explain the classification of pteridophytes by Zimmerman.

(7 × 5 = 35 Marks)



IV. Answer the following questions in not more than **250** words

23. (a) Describe the general characters of bryophytes in detail.

OR

(b) Write a detailed comparison of Pteridophytes and Bryophytes.

24. (a) Describe the economic importance of Gymnosperms giving specific examples.

OR

(b) Describe in detail, the life cycle patterns in Pteridophytes.

(2 × 10 = 20 Marks)

