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Reg. No. :

Name :

First Semester M.Sc. Degree Examination, May 2023 Botany

BO212 : BRYOPHYTA, PTERIDOPHYTA AND GYMNOSPERMS (2019 Admission Onwards)

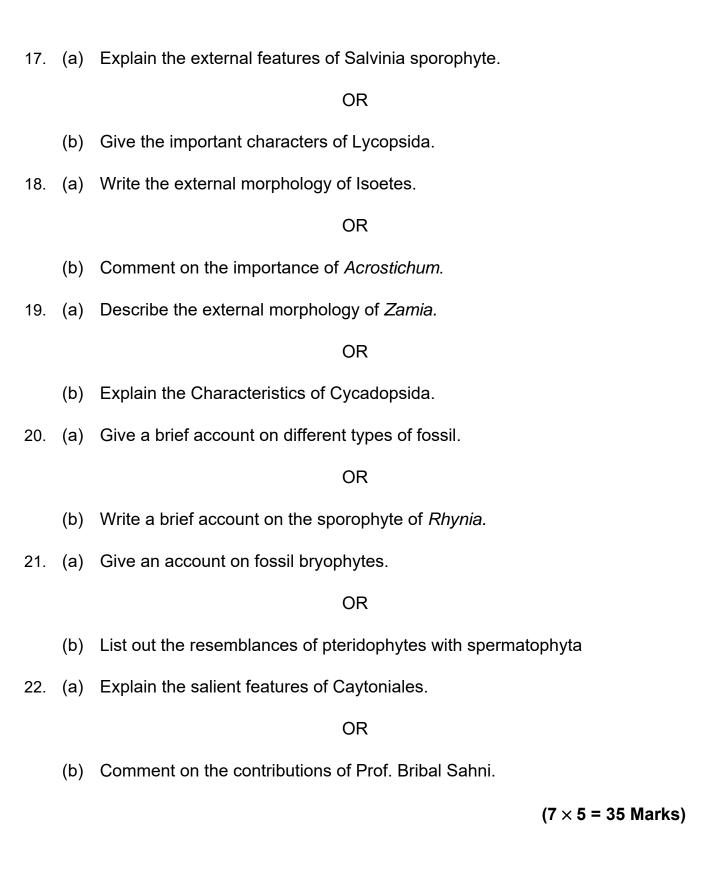
Time : Three Hours Max. Marks : 75

- I. Write short notes on the following questions.
- 1. Peristome
- 2. Apospory
- 3. Girdling leaf traces
- 4. Fossilization
- 5. Perigynium
- 6. Circinate Ptyxis
- 7. Leptosporangium
- 8. Pseudofossils
- 9. Transfusion tissue
- 10. Diploxylic endition

 $(10 \times 1 = 10 \text{ Marks})$

II.	Answer the following questions in not more than 50 words.	
11.	(a)	Comment on the types of rhizoids in Bryophytes.
		OR
	(b)	Why are Bryophytes considered as bioindicators?
12.	(a)	Explain the demerits of telome theory.
		OR
	(b)	Enlist the diagnostic features of Sphenopsida.
13.	(a)	What is soft wood? Give example.
		OR
	(b)	What are coralloid roots? Comment on their function.
14.	(a)	Describe the structure of pollen in <i>Pinus</i> at the time of dispersal.
		OR
	(b)	Comment on the significance of studying fossils.
15.	(a)	What is protonema? Give example.
		OR
	(b)	What is coenosorus? Give example.
		(5 × 2 = 10 Marks)
III.	Ans	wer the following question in not more than 150 words.
16.	(a)	Explain the general characters of Bryophytes.
		OR
	(b)	Comment on the salient features of Polytrichales.

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23. (a) Write an account on the economic importance of Gymnosperms.

OR

(b) Describe the structure and reproduction in Lunularia.

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

24. (a) Give an account on the structure and reproduction in Ephedra.

OR

(b) Write an account on the stelar types in Pteridophytes.

 $(2 \times 10 = 20 \text{ Marks})$

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