

E 6143



Reg. N	To
Name	

B.Sc. DEGREE (C.B.C.S.S.) EXAMINATION, SEPTEMBER 2024

Sixth Semester

Core Course—BRYOLOGY, PTERIDOLOGY, GYMNOSPERMS AND PALEOBOTANY

(Common for B.Sc. Botany Model I, Model II)

(2011 and 2012 Admissions)

aximum	Weight: 25
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Part A (Objective Type)

Answer all questions. Weight 1 each for a bunch of four questions.							
I.	1	In cycas vegetative reproductive takes place by :					
		(a)	Sporophylls.	(b)	Rhizome.		
		(c)	Leaves.	(d)	Bulbils.		
	2 Bract scales are meant for:						
		(a)	Photosynthesis.	(b)	Protection.		
		(c)	Transpiration.	(d)	Reproduction.		
	3	3 Stele where xylem is surrounded by phloem is called:					
		(a)	Protostele.	(b)	Siphonostele.		
		(c)	Solenostele.	(d)	Dictyostele.		
	4	4 Which of the following is known as club moss?					
		(a)	Lycopodium.	(b)	Ephedra.		
		(c)	Psilotum.	(d)	Selaginella.		
II.	Fill	Fill in the blanks with appropriate word or words :					
	5	5 Sago is obtained from ———.					
	6	6 Spindle shaped cells that help in the dispersal of spores in Marchantia are called ————					
	7	7 Sterile structures seen intermingled with authoredia of Funaria are called ———.					
	8	8 is known as Father of Indian Paleohotany					





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III. Name the following:

- 9 Aquatic species of Riccia.
- 10 Famous Indian Bryologist.
- 11 Lateral lump of tissue found in embryo of Gnetum.
- 12 Cavity formed by the disintegration of Protoxylem in Equisetum.

IV. Match the following:

- 13 Tubercled Rhizoid Funaria.
- 14 Peristome Selaginella.
- 15 Ligule Pinus.
- 16 Annual Rings Riccia.

 $(4 \times 1 = 4)$

Part B (Short Essay Questions)

Answer any **five** of the following. Weight 1 each.

- 17 What is diploxyly?
- 18 What is Sulphur shower?
- 19 Describe the morphology of Sporocarp of Marsilea.
- 20 What is synangium?
- 21 What is amber?
- 22 What are coralloid roots?
- 23 What is columnella?
- 24 Define polyembryony.

 $(5 \times 1 = 5)$

Part C (Short essay/Problem Solving Type)

Answer any **four** of the following. Weight 2 each.

- 25 Enlist the aquatic characters of Marsilea.
- 26 Explain the structure of Sorus in Pteris.
- 27 Describe the structure of Cycasovule.





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- 28 What are Petrefactions?
- 29 Explain the structure of Sporophyte of Anthoceros.
- 30 Mention any four similarities of Pteridophytes with Bryophytes.

 $(4 \times 2 = 8)$

Part d (Essay Type)

Answer any **two** of the following. Weight 4 each.

- $31 \ \ Describe the angiosperm characters of Gnelum.$
- 32 Describe the life cycle of Psilotum.
- 33 With suitable sketches explain Stelar evolution in Pteridophytes.

 $(2 \times 4 = 8)$

