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## FIFTH SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2015

(UG—CCSS)

## Core Course—Botany

# BO 5B 06—BRYOLOGY, PTERIDOLOGY, GYMNOSPERM AND PALEO BOTANY (2012 Admission onwards)

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Time: Three Hours				Maximum: 30 Weightage		
I. Objective type questions. (Include multiple choices, fill in the blanks and answer in a single word						
		Answer all t	welv	e questions.		
Choose	e the co	rrect answer:				
1.	1. Birbal Sahni institute is located at:					
	(a)	Lucknow.	(b)	Culcutta.		
	(c) l	Bhopal.	(d)	Bhilai.		
2.	Elaters	present in:				
	(a)	Capsule.	(b)	Gemmae cup.		
	(c)	Antheridium.	(d)	Archaegonium.		
3.	3. Horese tail is:					
	(a)	Selaginella.	(b)	Pteris.		
	(c)	Equisetum.	(d)	Psilotum.		
4.	Endos	perm of Cycas is :				
	(a)	Diploid.	(b)	Triploid.		
	(c)	Tetraploid.	(d)	Haploid.		
Fill in	the blar	nks:				
5.	Sporophyte depending on gametophyte in ———————————————————————————————————					
6.	is heterosporous type of pteridophyte.					
7.	Cyanobacteria (blue green algae) is seen in the roots of					
8.	Remnance of living organisms once existed is known as ————					

#### Answer in a word:

- 9. Needle type leaves present in which plant.
- 10. Name a fossil Gymnosperm.
- 11. Protective covering of sorus.
- 12. Which group of plants is known as ambhibians of the plant kingdom.

 $(12 \times 1/4 = 3 \text{ Weightage})$ 

### Short Answer questions. Answer all nine questions:

- 13. What are the contributions of Indian bryologists?
- 14. Sporophyte of Riccia.
- 15. Synangium.
- 16. Sporocarp of Marselia
- 17. Econonic importance of gymnosperms.
- 18. Female cone of Pinus.
- 19. Stem anatomy of Gnetum.
- 20. Write notes on Rhynia.
- 21. Fossil fuels.

 $(9 \times 1 = 9 \text{ weightage})$ 

- II. Short essay or paragraph questions. Answer any five questions.
- 22. Describe the structure of Cycas ovule with suitable diagram.
- 23. Stelar evolution in Pteridophytes.
- 24. Asexual reproduction in Pteris.
- 25. Vegetative features of Equisetum.
- 26. Give an account of Psilotum.
- 27. Describe the sporophyte of Funaria.
- 28. Archaegonium of anthoceros.

- IV. Essay questions. Answer any two question.
- 29. Write an essay regarding the thallus structure and reproduction in Riccia with necessary diagrams.
- 30. Life history of Selaginella with special emphasis on heterospory.
- 31. Describe the Salient features of Gnetum.

 $(2 \times 4 = 8 \text{ weightage})$