

Seat No.

## HAJ-003-2013006

B. Sc. (Sem. III) (CBCS)

(W.E.F. 2019) Examination

May - 2023

**B-301**: Plant Diversity - 2

Faculty Code: 003

Subject Code: 2013006

Time:  $2\frac{1}{2}$  / Total Marks: 70

- 1 A. Objective type questions : (All are compulsory) 1. The cystocarp is consist of . 2. What is the function of eye-spot? 3. Give the example of pseudaporenchymatous forms of algae. Write the names of Nostoc species occur in 4. symbiotic association with Fungi. Answer in Brief: (Any. 1 out of 2) 2 B. 1. What is coenobium forms 2. Differentiate between Siphonaceous and filamentous thallus. C. Answer in Detail : (Any 1 out of 2) 3 Draw the well labelled diagram of Ultra structured Eukaryotic algal cell. 2. Write note on: Algae causing biological disturbances. Write a Note on: (Any 1 out of 2) D. 5 1. Explain: The methods of reproductions in Nostoc. 2. Explain: Post fertilization in Batrachospermum. 2 A. Objective type questions : (All are compulsory) 4 1. Maximum how many bud scar noted on Yeast? 2. Define: Isthmus
- **HAJ-003-2013006**]

3.

4.

By whom studied first yeast cell?

What is lomosomes?

	B.	Ans	Answer in Brief: (Any 1 out of 2)		
		1.	Discuss: budding in Yeast		
		2.	Explain: antheridium in Aspergillus		
	C.	Answer in Detail: (Any 1 out of 2)			
		1.	Write industrial applications of Yeast.		
		2.	Give note on Cleistothecium.		
	D.	Wri	ite a Note on : (Any 1 out of 2)	5	
		1.	Describe with diagram: Haplobiontic type life cycle in Yeast.		
		2.	Describe: Asexual reproduction in Aspergillus.		
3	A.	Objective type questions : (All are compulsory)			
		1.	How many thalli may be produced from germination of gemma?	a	
		2.	Which organs in the sporogonium of Funaria controls the spore liberation?	ne	
		3.	What is Paraphyses ?		
		4.	What is an elaters?		
	В.	Answer in Brief: (Any 1 out of 2)			
		1.	Give note on: Bryophytes uses in Horticulture.		
		2.	Classify Anthoceros.		
	C.	Answer in Detail: (Any 1 out of 2)			
		1.	Explain: Innovations as vegetative reproduction in bryophyte.		
		2.	Explain: Internal structure of thallus of Anthoceros.		
	D.	Wri	te a Note on: (Any 1 out of 2)	5	
		1.	Describe the internal structure of the lid of capsule of Funaria including dehiscence of capsule.		
		2.	Describe the internal structure of sporophyte of Anthoceros.		

4	A.	Objective type questions: (All are compulsory)	4	
		1. What is the Protostele ? write the types of it only.		
		2. What is ramenta?		
		3. Give common name of Adiantum.		
		4. Differentiated between actinostele and atactostele.		
	В.	Answer in Brief: (Any 1 out of 2)		
		1. Write types of Siphonostele given by Jeffrey.		
		2. Draw the labelled diagram of mature sporangium of Adiantum.		
	C.	Answer in Detail: (Any 1 out of 2)		
		1. Write the economic importance of Pteridophytes.		
		2. Draw the labelled diagram of T.S. of Adiantum rachis		
	D.	Write a Note on: (Any 1 out of 2)	5	
		1. What is stele? Describe modifications of siphonestele.		
		2. Describe sexual reproduction in Adiantum.		
5	A.	Objective type questions : (All are compulsory)	4	
		1. Pinus is phanerogames with lack of .		
		2. The ectotrophic mycorrhizae is belongs to which sub-division?		
		3. Which type of pollination in Pinus?		
		4. Give floral formula of lantana indica.		
	В.	Answer in Brief: (Any 1 out of 2)	2	
		1. Write any four species of Pinus.		
		2. Give floral diagram and floral formula of Combretaceae family.		
	C.	Answer in Detail: (Any 1 out of 2)	3	
		1. Draw -labelled diagram of Pinus female Cone.		
		2. Classify Commelinaceae family.		
	D.	Write a Note on: (Any 1 out of 2)	5	
		1. Classify Euphorbiaceae with floral diagram and floral formula.		
		2. Draw labelled, diagram of Pinus needle.		

3

[ 140 / 2-8 ]

**HAJ-003-2013006**]