

(d)

Explain: -Thallus organization in algae.

Write note on: (any 1 out of 2)

Asexual reproduction in Batrachospermum.

Explain:-Sexual reproduction in Batrachospermum.

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		(2)	Explain: - Sporophyte of Funaria.	
		(1)	Explain: - Alternation of generation in Marchantia.	
	(d)	Writ	te note on: (any 1 out of 2)	5
		(2)	Describe external characters of Funaria thallus.	
		(1)	Describe the external characters of Marchantia thallus.	
	(c)	Ans	wer in detail: (any 1 out of 2)	3
		(2)	Draw the labelled diagram of Funaria leaf (T.S).	
		(1)	Describe the vegetative reproduction through tubers in Bryophyta.	
	(b)		wer in brief: (any 1 out of 2)	2
	(l-)	Λ	Funaria?	o
		(4)	How may peristome teeth are found in capsule of	
		(3)	Write both species names of <i>Marchantia</i> that are found in western Himalaya and Kashmir.	
		(2)	Which kind of arrangement of leaves is found in <i>Funaria</i> ?	
		(1)	Write any three names of genera that belong to division Hepaticopsida.	
3	(a)		wer the following objective type questions:	4
		(2)	Explain: Sexual reproduction in Aspergillus.	
		(1)	Yeast.	
	(d)	(1)	te note on : (any 1 out of 2) Explain:- Asexual and sexual reproduction in	Э
	(4)	\\\\	Aspergillus.	5
		(2)	Describe any two industrial application of	
		(1)	Describe the nucleus of fungal cell.	
	(c)	Ans	wer in detail: (any 1 out of 2)	3
		(2)	Write the occurrence of yeast.	
	` /	(1)	Write the classification of Aspergillus.	
	(b)	Ans	wer in brief: (any 1 out of 2)	2
		(4)	Which types of flagella are found in the zoospore of fungi?	
		(3)	Which species of Aspergillus produce the kojic acid?	
		(2)	The yeast cells are rich source of vitamin.	
		(1)	Which type of hypha is present in Aspergillus.	
2	(a)	Ans	wer the following objective type questions:	4

4	(a)	Answer the following objective type questions:	4
		(1) The male gametophyte of <i>Sellaginella</i> shed in how many celled stage? Give the name of those cells.	
		(2) The stele with central xylem has radiating ribs known as	
		(3) Who proposed the telome theory? When?	
		(4) The gametophyte of <i>Adiantum</i> is called	
	(b)	Answer in brief: (any 1 out of 2)	2
		(1) Define heterospory.	
		(2) Define telome and mesome.	
	(c)	Answer in detail: (any 1 out of 2)	3
		(1) Describe : Microsporangia and Megasporangia of Sellaginella.	
		(2) Describe: structure of Sporangia and spore of <i>Adiantum</i> .	
	(d)	Write note on: (any 1 out of 2)	5
		(1) Explain:- Various types of stele.	
		(2) Explain: Gamatophytic generation of Sellginella.	
5	(a)	Answer the following objective type questions:	4
		(1) Write two scientific names of plants belonging to family Combretaceae.	
		(2) Write the name of smallest Gymnosperm.	
		(3) The pollen grain of <i>Pinus</i> shed in how many celled stage condition? Give the names.	
		(4) Write the floral foumula of family Commelinaceae.	
	(b)	Answer in brief: (any 1 out of 2)	2
		(1) Why <i>Pinus</i> plant is called monoecious and autoecious ?	
		(2) Draw floral diagram of Acacia nilotica.	
	(c)	Answer in detail: (any 1 out of 2)	3
		(1) Describe anatomy of <i>Pinus</i> needle.	
		(2) Describe the classification with reason of family Verbenaceae	
	(d)	Write note on: (any 1 out of 2)	5
		(1) Explain: - Male and female cone of Pinus.	
		(2) Explain: - Family Euphorbiaceae.	