

DCU-003-0011004

Seat No. _____

B. Sc. (Sem. I) (CBCS) Examination

August - 2022

Botany-101: Plant Diversity

(Old Course)

Faculty Code: 003 Subject Code: 0011004

Tim	e : 2	$2\frac{1}{2}$ Hours] [Total Marks:	70
Inst	ruct	cion: Attempt any five questions.	
1	(a)	Objective: (1) Write the name of four major division of algae. (2) The reserve food material in Chlorophyceae is (3) is known as pond silk. (4) Air bladder occurs in	4
	(b)	Answer in brief: Write 4 characters of kingdom protista.	2
	(c)	Answer in detail: Explain scalariform conjugation in Spirogyra algae.	3
	(d)	Write a note on: Describe the life cycle of Spirogyra.	5
2	(a)	Objective: (1) The life cycle of Sargassum is (2) Spirogyra possess shaped chloroplast. (3) Arrange the following term in correct order of taxonomic categories. Genus, Family, Division, Order, class & Species. (4) In which kingdom, multicellular decomposer is present.	4
	(b)	Answer in brief: Draw only chart showing life cycle of Sargassum	2
	(c)	Answer in detail: Write general characters of kingdom plantae.	3
	(d)	Write a note on: Explain reproduction in Sargassum	5

3	(a)	Objective:	4
		(1) What is mycology?	
		(2) Give name a fungal disease caused by Mucor in	
		animal and human.	
		(3) Yeast cells are the best source of vitamin.	
		(4) Agaricus belong to class.	
	(b)	Answer in brief:	2
	(~)	Write vegetative structure of Mucor	_
	(c)	Answer in detail:	3
		Describe sexual reproduction in Mucor	
	(d)	Write a note on:	5
		Give an account of the economic importance of fungi.	
4	(a)	Objective:	4
	()	(1) Fruiting body of Agaricus is called	
		(2) Name a species of fungus which is source of	
		antibiotic.	
		(3) Mucor is also known as due to presence	
		of black spore.	
		(4) Saccharomyces cerevisiae is the source of enzyme	
		Invertase & Zymase. TRUE / FALSE	
	(b)	Answer in brief:	2
	(8)	Write uses of fungi in antibiotics.	_
	(c)	Answer in detail:	3
	, ,	Give an account of general characters of fungi.	
	(d)	Write a note on:	5
		Explain reproduction in Agaricus	
5	(a)	Objective:	4
0	(α)	(1) Which type of branching is found in Riccia?	•
		(2) Which types of rhizoids are found in to the Riccia	
		thallus?	
		(3) The phase is the major & independent	
		phase in the life cycle of Riccia.	
		(4) The scientist who deals with the Bryophyta is	
		known as	
	(b)	Answer in brief:	2
	()	Vegetative reproduction by tubers in Riccia	
	(c)	Answer in detail:	3
		Give the general characters of class Bryopsida.	
	(d)	Write a note on:	5
		Describe the anatomy of Raccia thallus with draw.	
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6	(a)	Objective:	4
	. ,	(1) The cell of Riccia thallus is consist of	
		chloroplast.	
		(2) The Riccia ventral consist of & cell.	
		(3) Life cycle of Riccia is	
		(4) Scales of Bryophyta are hyline or violet in colour	
		True / false	
	(b)	Answer in brief:	2
		Give four general characters of Bryophyta.	
	(c)	Answer in detail:	3
	(d)	Explain Riccia thallus with labeled diagram. Write a note on:	5
	(u)	Give general characters of Bryophayta.	J
7	(a)	Objective:	4
•	(4)	(1) Which type of root found in Nephrolepis plant?	_
		(2) What is ramenta?	
		(3) Nephrolepis leaves length is	
		(4) Non flowering plants are	
	(b)	Answer in brief:	2
		Which type of stele is found in Nephrolepis plant,	_
	(c)	Answer in detail:	3
	(d)	Explain the internal structure of Nephrolepis rhizome. Write a note on:	5
	(u)	Describe the life cycle of Nephrolepis	•
8	(a)	Objective:	4
	()	(1) Seed less vascular plants are	
		(2) Gametophyte of Nephrolepis is otherwise known	
		as	
		(3) A cluster of sporangia is known as(4) Which type of prothallus, shape found in	
		Nephrolepis?	
	(b)	Answer in brief:	2
	()	Wnat is alternation of generation?	
	(c)	Answer in detail:	3
		Explain the internal structure of Nephrolepis root	
	(4)	(with Draw)	E
	(d)	Write a note on: With the help of Labelled diagrams explain the	5
		development of male and female gametophytes in	
		Nephrolepis.	
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9	(a)	Objective:	4
		(1) Give the common name of Cycus revoluta	
		(2) Which algae present in Cycus root?	
		(3) Vegetative reproduction in Cycus occurs by	
		(4) Cycus trank is covered with &	
	(b)	Answer in brief:	2
		Write the morphological characters of Cycus plant.	
	(c)	Answer in detail:	3
		Describe the development of male gametophyte in	
		Cycus.	
	(d)	Write a note on:	5
		Write on male and female cone of Cycus	
10	(a)	Objective:	4
		(1) Negatively geotropic roots are found in which gymnosperm you studied?	
		(2) What is corraloid root in Cycus?	
		(3) Cycus leaflets are in which shape?	
		(4) Cycus is a unisexual plant. True/False	
	(b)	Answer in brief:	2
		Explain class Gnetopsida.	
	(c)	Answer in detail :	3
		Described the structure of Cycus ovule.	
	(d)	Write a note on:	5
		Anatomical structure of Cycus leaflet (pinnae).	