

of Chara?

RN-003-1015037

Seat No.

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

February - 2019

Botany: Paper - 501

(Cryptogamic Botany and Plant Pathology) (New Course)

> Faculty Code: 003 Subject Code: 1015037

Time : $2\frac{1}{2}$ Hours] [Total Marks : 70 Instructions : (1) Attempt all the questions.

- (2) Draw neat and labelled diagram wherever necessary.
- (3) Figures to the right side indicate total marks for the questions
- 1 (A) Answer the following Objective type questions: 4
 (1) How many tube cells are present in the nucule
 - (2) Coleochetae thallus have a long unbranched cytoplasmic thread, called:
 - (3) _____ species of Chara shows vegetative reproduction by amorphous bulbils.
 - (4) In some species of Ectocarpus, the female gametes produce a chemical called ______ to attract male gametes.
 - (B) Answer in brief: (Any One out of Two) 2

 (1) Give the classification of Caulerpa with reasons.

 OR
 - (2) Write about the cell structure of Ectocarpus.
 - (C) Answer in detail: (Any One out of Two) 3

 (1) Explain globule of Chara with diagram.

OR

(2) Describe the internal structure of Caulerpa thallus.

	(D)	Write a note on: (Any One out of Two)		5
		(1)	Describe sexual reproduction in Coleochetae.	
			\mathbf{OR}	
		(2)	Explain asexual reproduction in Ectocarpus.	
2	(A)	Ans	wer the following Objective type questions:	4
		(1)	Fruiting body of Peziza is called	
		(2)	Early blight of potato is caused by:	
		(3)	Write early symptoms of early blight of potato.	
		(4)	Mention true or false: In Peziza, ascogenous hyphae developed after fertilization.	
	(B)	Ans	wer in brief : (Any One out of Two)	2
		(1)	Explain the life cycle of Peziza with the help of schematic presentation only.	
			\mathbf{OR}	
		(2)	Write vegetative structure of Alternaria.	
	(C)	Ans	wer in detail : (Any One out of Two)	3
		(1)	Give classification of Peziza with reasons.	
			\mathbf{OR}	
		(2)	Explain sexual reproduction in Alternaria.	
	(D)	Wri	te a note on : (Any One out of Two)	5
		(1)	Describe - Apothecium of Peziza.	
			\mathbf{OR}	
		(2)	Describe different spores of fungi.	
3	(A)	Ans	wer the following Objective type questions:	4
		(1)	In Pellia, the neck of archegonium is made of vertical row of cells.	
		(2)	What do you mean by gametophytic phase of bryophyte?	
		(3)	In Sphagnum, the antheridia are borne insuccession on antheridial branches.	
		(4)	Name two species of Pellia found in India.	
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	(B)	Answer in brief: (Any One out of Two) 2	
		(1) Draw a labelled diagram about the internal structure of Pellia thallus.	
		OR	
		(2) Give the systematic position of Sphagnum.	
	(C)	Answer in detail : (Any One out of Two) 3	
		(1) Explain internal structure of Sphagnum axis.	
		OR	
		(2) Write the external features of Pellia.	
	(D)	Write a note on: (Any One out of Two) 5	
		(1) Describe the sex organs of Pellia.	
		\mathbf{OR}	
		(2) Explain the internal structure of mature sporophyte.	
4	(A)	Answer the following Objective type questions: 4	
		(1) In Cingularia, bracts were present the sporangiophores.	
		(2) Write the occurrence of Marsilea.	
		(3) What type of stele is found in Ophioglossum root?	
		(4) How many flagella are present in each antherozoid of Ophioglossum?	
	(B)	Answer in brief: (Any One out of Two) 2	
		(1) Explain internal structure of Marsilea leaf.	
		OR	
		(2) Write the morphology of Ophioglossum.	
	(C)	Answer in detail : (Any One out of Two) 3	
		(1) Write a note on Spermocarp of Marsilea. OR	
		(2) Describe the internal structure of Rhynia stem.	
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	(D)	write a note on : (Any One out of Iwo)	
		(1) Explain - Internal structure of Marsilea petiole.	
		\mathbf{OR}	
		(2) Describe the spore producing organs of Ophioglossum.	
5	(A)	Answer the following Objective type questions:	4
		(1) Bordeaux mixture consists of :	
		(2) Disappearance of chlorophyll in infected plants is called	
		(3) The disease symptoms give a burnt appearance in:	
		(4) Write the causal organism of red rot of sugar cane.	
	(B)	Answer in brief: (Any One out of Two)	2
		(1) Write important symptoms of red rot of sugarcane.	
		OR	
		(2) Write controlling measures of Leaf curl of Papaya.	
	(C)	Answer in detail : (Any One out of Two)	3
		(1) Describe whip smut of sugarcane.	
		\mathbf{OR}	
		(2) Describe Citrus canker.	
	(D)	Write a note on: (Any One out of Two)	5
		(1) Explain - Tikka disease of ground nut.	
		\mathbf{OR}	
		(2) Describe White smut of sugarcane.	