

PAP-003-1015037 Seat No. _____

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

October / November - 2018

Botany : B - 501

(Cryptogamic Botany and Plant Pathology) (New Course)

Faculty Code: 003

Subject Code: 1015037

Time : 2	1/2 Hours] [Total Ma	arks : 70
Instructi	ons: (1) Attempt all the questions. (2) Answer with draw neat and labelled wherever necessary. (3) Figures to the right side indicated to for the questions.	
1 (A)	Answer the following Objective type questions: (1) The female sex organ in Chara is known as (2) The spermocarp, of Coleochatae produces (3) species of Chara shows vegetate reproduction by amorphous bulbils. (4) The plant body of caulerpa unicellumultinucleate is it true or false?	 ative
(B)	Answer in brief: (any one out of two) (1) Explain internal structure of Caulerpa thall OR (2) Write about the cell structure of Ectocarpus	
(C)	Answer in detail: (any one out of two) (1) Explain globule of <i>Chara</i> with diagram. OR (2) Draw the label diagram: Spermocarp of <i>Coleoch</i>	3 hatae.
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	(D)	Writ	te a note on : (any one out of two)	5
		(1)	Describe sexual reproduction in Coleochetae.	
			OR	
		(2)	Explain asexual reproduction in <i>Ectocarpus</i> .	
2	(A)	Ansv	wer the following Objective type questions:	4
		(1)	Peziza is shaped fungi	
		(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)	Ansv	wer in brief : (any one out of two)	2
		(1)	Explain the life cycle of Peziza with the help of	
			schematic presentation only.	
			OR	
		(2)	Write vegetative structure of Alternaria.	
	(C)	Ansv	wer in detail : (any one out of two)	3
		(1)	Give classification of $Peziza$ with reasons. OR	
		(2)	Explain sexual reproduction in Alternaria.	
	(D)	Writ	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)	Ansv	wer the following Objective type questions:	4
		(1)	In <i>Pellia</i> , the neck of archegonium is made of vertical row of cells.	
		(2)	What do you mean by gametophytic phase of	
		(2)	bryophyte?	
		(3)	In Sphagnum, the antheridia are borne in	
		(0)	succession on antheridial branches.	
		(4)	The masses of sterile cells located at the base of	
		(T)	the capsule of <i>Pellia</i> are known as.	
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	(B)	Answer in brief: (any one out of two)	2
		(1) Describe the V.S. of <i>Pellia</i> capsule structure.	
		OR	
		(2) Give the systematic position of Sphagnum.	
	(C)	Answer in detail: (any one out of two)	3
		(1) Write short note on Sphagnum leaf.	
		OR	
		(2) Write the external features of <i>Pellia</i> .	
	(D)	Write a note on: (any one out of two)	5
		(1) Describe the sex organs of $Pellia$. OR	
		(2) Explain the internal structure of mature sporophyte (Sphagnum).	
4	(A)	Answer the following Objective type questions:	4
		(1) In Cingularia, bracts were present the	
		sporangiophores.	
		(2) Write the occurrence of Marsilea.	
		(3) Sporangia of <i>Ophiglossum</i> are seen in the form of a	
		(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 <i>Marsilea</i> leaf. OR	
		(2) Write the morphology of <i>Ophioglossum</i> .	
	(C)	Answer in detail: (any one out of two)	3
		(1) Write a note on Spermocarp of <i>Marsilea</i> . OR	
		(2) Write a note on the discovery and external morphology of <i>Rhynea</i> .	

	(D)	write a note on: (any one out of two)	Э
		(1) Explain - Internal structure of Marsilea petiole.	
		OR	
		(2) Describe the spore producing organs of	
		Ophiog loss um.	
5	(A)	Answer the following Objective type questions:	4
อ	(A)		4
		(1) Mention True or False :- Citrus canker is bacterial disease.	
		(2) Disappearance of chlorophyll in infected plants is	
		called	
		(3) The disease symptoms give a burnt appearance in:	
		(4) Which causal organism of whip smut of sugarcane?	
	(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.	
		OR	
		(2) Describe Citrus canker.	
	(D)	Write a note on: (any one out of two)	5
	` ′	(1) Explain - Tikka disease of ground nut.	
		OR	
		(2) Describe White smut of sugarcane.	