

JV-003-1015037 Seat No. _____

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

October - 2019

Botany: B - 501 (Cryptogamic Botany & Plant Pathology) (New Course) Faculty Code: 003 Subject Code: 1015037						
Instruct	ions	 (1) Attempt all the questions. (2) Answer with neat and labelled diagrams where necessary. (3) Figures to the right side indicate total marks the question. 				
1 (a)	Ans (1)	ver the following objective type questions : Which algae possesses coenocytic thallus?	4			
	(2)	The neck of <i>Coleochetae</i> archegonia is known as				
	(3)	The female sex organ of Chara is known as				
	(4)	According to pigment <i>Ectocarpus</i> is algae.				
(b)	Ans	ver in brief: (any 1 out of 2)	2			
	(1)	Give the classification of $Coleochetae$ with reasons. OR				
	(2)	Draw a labelled diagram of cell structure of <i>Ectocarpus</i> .				
(c)	Ans	ver in detail: (any 1 out of 2)	3			
	(1)	Describe the internal structure of <i>Caulerpa</i> thallus.				
	(0)	OR				
/ 3\	(2)	Explain asexual reproduction in <i>Ectocarpus</i> .	_			
(d)	Wri	e a note on : (any 1 out of 2)	5			

 $(1) \quad \hbox{Describe vegetative reproduction in $Chara$.}$

OR

(2) Explain sexual reproduction in Coleochetae.

2	(a)	Answer the following objective type questions:	4
		(1) Fruiting body of <i>Peziza</i> is called	
		(2) Name the branches which bear conidia in <i>Aspergillus</i> .	
		(3) Which type of spore is produced during asexual reproduction of Aspergillus?	
		(4) Mention true or false: In <i>Peziza</i> , hyphae is coenocytic.	
	(b)	Answer in brief: (any 1 out of 2)	2
		(1) Explain the life cycle of Peziza with the help	
		of schematic presentation only.	
		OR	
		(2) Write vegetative structure of Alternaria.	
	(c)	Answer in detail: (any 1 out of 2)	3
		(1) Describe different spores of fungi.	
		\mathbf{OR}	
		(2) Explain sexual reproduction in Alternaria.	
	(d)	Write note on: (any 1 out of 2)	5
		(1) Describe - Apothecium of <i>Peziza</i> .	
		OR	
		(2) Give classification of <i>Peziza</i> with reasons.	
3	(a)	Answer the following objective type questions:	4
		(1) Spore mother cell of Sphagnum is	
		(2) The antheridia of <i>Pellia</i> are open on dorsal surface through	
		(3) In <i>Sphagnum</i> , the antheridia are borne in succession on antheridial branches.	
		(4) Mention true or false : spore of <i>Pellia</i> is diploid.	
	(b)	Answer in brief: (any 1 out of 2)	2
		(1) Draw a labelled diagram about the internal structure of <i>Sphagnum</i> axis.	
		OR	
		(2) Give the systematic position of <i>Pellia</i> .	
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	(c)	Ans	wer in detail : (any 1 out of 2)	3
		(1)	Explain internal structure of Sphagnum leaf.	
		, ,	OR	
		(2)	Write note on : Dehiscence of capsule in Pellia.	
	(d)	Wri	te note on: (any 1 out of 2)	5
		(1)	Describe the sex organs of Sphagnum.	
			OR	
		(2)	Explain the internal structure of mature sporophyte of <i>Pellia</i> .	
4	(a)	Ans	wer the following objective type questions:	4
		(1)	Which type of compound leaf is observed in <i>Marsilea</i> ?	
		(2)	Sporangia of <i>Ophioglossum</i> is seen in form of:	
		(3)	Rhynia belongs to geological period known as:	
		(4)	${\bf Mention\ true\ or\ false: } {\it Ophioglossum\ produces\ one}$	
			leaf each year.	
	(b)	Ans	wer in brief: (any 1 out of 2)	2
		(1)	Explain internal structure of Marsilea leaf.	
			OR	
		(2)	Give the systematic position of Ophioglossum.	
	(c)	Ans	wer in detail: (any 1 out of 2)	3
		(1)	Draw the T.S. of Rhizome with labelled diagram in <i>Marsilea</i> .	
			OR	
		(2)	Describe mature prothallus of Ophioglossum.	
	(d)	Wri	te note on: (any 1 out of 2)	5
		(1)	Explain - Internal structure of Marsilea petiole.	
			OR	
		(2)	Describe the female gametophyte of <i>Ophioglossum</i> .	
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5	(a)	Answer the following objective type questions:	4
		(1) Write the causal organism of whip smut of	
		sugarcane.	
		(2) Define: Necrosis.	
		(3) Write the causal organism of Red rot of sugarcane.	
		(4) Mention true or false: Leaf curl of Papaya is	
		bacterial disease of plant.	
	(b)	Answer in brief: (any 1 out of 2)	2
		(1) Write important symptoms of whip smut of	
		sugarcane.	
		OR	
		(2) Write controlling measures of Leaf curl of Papaya.	
	(c)	Answer in detail: (any 1 out of 2)	3
		(1) Write important symptoms of red root of sugarcane.	
		\mathbf{OR}	
		(2) Explain different methods of plant disease control.	
	(d)	Write a note on: (any 1 out of 2)	5
		(1) Explain six controlling measures of Citrus canker.	
		OR	
		(2) Describe Tikka disease of ground nut.	