

## JV-003-001509 Seat No. \_\_\_\_\_

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

October - 2019

Botany : B - 501

(Cryptogamic Botany and Plant Pathology) (Old Course)

> Faculty Code: 003 Subject Code: 001509

Time: 2	$\frac{1}{2}$ Hours]		[Total Marks : 70		
Instructi	ions: (1)	Write answers of all que sheet.	stions in main answer		
	(2)	Draw neat and labelle necessary	d diagrams wherever		
	(3)	Figures to the right side the questions.	indicate full marks for		
1 Writ	e short ans	wer:	20		
(1)	The female sex organ in Chara is known as				
(2)	Calamtes p	lant height was			
(3)	Which caus	sal organism of whip sm	ut of sugarcane?		
(4)	Who was d	iscovered heterothallism	in fungi?		
(5)	Sporangia	of Ophiglossum are seen	in the form of a		
(6)	In Pellia, a which part	rchegonia of the cluster a	re surrounded by		
(7)		cell from where the arises is known as	conidiophores of		
(8)	Non-motile	spore produced internal	ly are known as		
(9)	Rhynia bele	ongs to geological period	called		
(10)		ase is caused by			
(11)	On which si in Isoetes?	de is the sporangium seen	on the sporophyll		
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	(12)		masses of sterile cells located at the base of the	e
		caps	ule of Pellia are known as	
	(13)		iatom, the overlapping sidewalls of the two valve called	S
	(14)	The	spermocarp, of Coleochatae produces	_
	(15)	_	chemical used for killing fungal pathogens are	e
	(16)		he life cycle of ectocarpus, meiosis occurs during	g
	(17)	Wha	t is Nucule?	
	(18)	Actu	al mechanism of disease development is known a	s
$(19) \overline{\text{The}}$			plant body of caulerpa unicellular, multinucleat	e
			true or false?	
	(20)	Citru	us canker is bacterial disease true or false?	
2	(A)	Ansv	ver in short : (Any <b>Three</b> )	6
		(1)	Explain leaf scar in Lepidodendron	
		(2)	Explain cell structure in Diatoms	
		(3)	Draw the label diagrams: Rhizome T.S. of Marsile	a
		(4)	Describe the V. S. of Pellia capsule structure	
			Write note on Pathogenicity	
		(6)	Mention agriculture use of Trichoderma	
	(B)	Ansv	ver in Brief : (Any <b>Three</b> )	9
		(1)	Explain vegetative reproduction in Chara	
		(2)	Give the disease symptoms of Citrus canker.	
		(3)	Explain the external features of Rhynia.	
		(4)	Draw the label diagrams of L.S. of sporangia in Isoetes.	n
		(5)	Describe the sex evolution in algae	
		(6)	Write the brief note on the nomenclature of fossils	8.
	(C)	Ansv	ver in detail : (Any <b>Two</b> )	10
		(1)	Describe the asexual reproductive structure of Aspergillus spp.	$\mathbf{f}$
		(2)	Describe the structure of the gametophyte of Sphagnum	$\mathbf{f}$
		(3)	Give an account of sexual reproductive organs of Pellia	$\mathbf{f}$
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	(4)	Draw the T.S. of Petiole with label diagrams in	
	<b>(</b> E)	Marselia  Carrel paradustion in Calcarhetes	
	(5)	Sexual reproduction in Coleochatea	
(A)	Ans	wer in short : (Any <b>Three</b> )	6
	(1)	What are the characteristics of the root of Isoetes?	
	(2)	Draw a labelled diagram of globule of Chara in	
		longitudinal section.	
	(3)	Caulerpa has been placed in the order Siphonales.	
		Why?	
	(4)	Name two genera of bryophytes belonging to two	
		different groups where the capsule produces sterile	
		columella.	
	(5)	Write the use of Trichoderma.	
	(6)	Write short note on Sphagnum leaf	
(B)	Ans	wer in Brief : (Any <b>Three</b> )	9
	(1)	Give the classification of Calamites	
	(2)	Give the classification of Caulerpa	
	(3)	Write note on : Retort cells.	
	(4)	Explain morphological nature of Ophioglossum	
		spike.	
	(5)	Write six symptoms Tikka Disease of Groundnuts	
	(6)	Write short note on Trichoderma	
(C)	Δng	wer in detail : (Any <b>Two</b> )	10
(0)		,	10
	(1)	Describe different methods of Plant disease control.	

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- (2) Explain the heterothallism in fungi
- (3) Describe the cell structure of cell wall and reproduction in Diatoms
- (4) Describe the anatomical structure of calamites
- (5) Explain: Thallus organization in Coleochatae

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