

RN-003-001509 Seat No. _____

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

February - 2019

B - 501 : Botany

(Cryptogamic Botany and Plant Pathology) (Old Course)

> Faculty Code: 003 Subject Code: 001509

Time: 2	$2\frac{1}{2}$ Hours]		[Total	Marks : 70		
Instruct	ions : (1)	This question paper contact All questions are compulse		e questions.		
	(2)	Write answers of all the answer sheet.	questio	ns in main		
	(3)	Draw neat and labelled necessary.	diagrar	n wherever		
	(4)	Figures to the right side ince the questions.	dicate fu	ll marks for		
1 Obje	ective type o	uestions :		20		
(1)	(1) The oospore of Coleochetae is surrounded by a sheath.					
(2)	Heterothall	ism in fungi was discovered	by			
(3)	The basal cell of Aspergillus from where conidiophore arises is known as:					
(4)	What is th	e name of fruiting body of	Aspergi	llus? .		
(5)		chemical used for killing fur	ngal patl	nogens.		
(6)	Sporangia o	of Ophioglossum are seen in	the for	rm of a		
(7)	Aspergillus	belongs to subd	livision.			
(8)	The name of the causal organisms of whip smut of sugarcane is					
(9)	Define - No	ecrosis.				
(10)		algae possess coenocytic, bra	anched t	thallus.		
(11)	Sphagnum	is commonly known as				
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(12) Ca	lamites plant possess height.		
(hat name is given to the spore producing organ of arsilea?		
(14) Th	e common name of Isoetes is:		
(•) Mention True or False: In Isoetes, Sporophyll possess sporangia.		
(16) Th	e male sex organ of Chara is known as		
(17) WI	Which layer is surrounded by sorus of Marsilea?		
(18) Th	The cell wall of diatom is composed of:		
(19) Sp	ore sac possess shape in Sphagnum.		
(How many cover cells are present in the archegonium of Sphagnum?		
2 (.	A) An	aswer in short : (Any Three)	6	
	(1)	Give the classification of Coleochetae with reasons.		
	(2)	Write any four economic importance of diatoms.		
	(3)	Mention agricultural uses of Trichoderma.		
	(4)	Write the process of dehiscence of capsule in Sphagnum.		
	(5)	Write morphological features of leaf of Isoetes.		
	(6)	Explain: Occurrence of Chara.		
(B) Gi	ve the Answer : (Any Three)	9	
`	(1)	Describe asexual reproduction in Aspergillus.		
	(2)			
	(3)	Give an account of the internal structure of Sphagnum axis.		
	(4)	Draw a labelled diagram of Ophioglossum root.		
	(5)	Give the disease symptoms of Tikka disease of groundnut.		
	(6)	Write a note on archegonia of Pellia.		
(C) An	aswer in detail : (Any Two)	10	
	(1)	Describe sexual reproduction in Aspergillus.		
	(2)	Explain the vegetative reproduction in Chara.		
	(3)	Give an account of internal structure of Sphagnum sporophyte.		
	(4)	Describe - Marsilea sporocarp.		
	(5)	Describe internal structure of Caulerpa thallus.		
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3 (A)		Answer in short : (Any Three)		
		(1) Caulerpa has been placed in the order Siphonales. Why?		
		(2) By means of labelled diagram only illustrate the life history of Isoetes.		
		(3) Draw a labelled diagram of Pellia antheridium.		
		(4) Explain the internal structure of Sphagnum leaf.		
		(5) Write a note on: Different spores of fungi.		
		(6) Write the occurrence of Ectocarpus.		
(B)	Give the Answer: (Any Three)	9		
		(1) Write an essay on heterothallism in fungi.		
		(2) Describe internal structure of Marsilea petiole.		
		(3) Give the disease symptoms of Red rot of sugar cane.		
		(4) Describe the morphological features of Ophioglossum spike.		
		(5) Explain the structure of Nucule with diagram.		
		(6) Write a short note on Lepidocarpon.		
(C)	Answer in detail : (Any Two)	10		
		(1) Describe internal structure of Marsilea root.		
		(2) Explain biological control of plant pathogens.		

- (3) Explain external and internal structure of Pellia.(4) Explain the asexual reproduction in Coleochetae.
- (5) Describe the symptoms, causal organism and control of Citrus canker.