

PAP-003-001509

Seat No.

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B. Sc. (Sem. V) (CBCS) Examination October / November - 2018

Botany: B-501 Cryptogamic botany & plant pathology

Faculty Code: 003

Subject Code: 001509 Time : $2\frac{1}{2}$ Hours] [Total Marks: 70 Instructions: (1) The question paper contains three questions. Draw neat and labelled diagram whenever (2) necessary. (3)Figures to the right indicate marks. 1 Give short answers of the following questions: 20 Name the algae which consist coenocytic branched and diploid thallus. (2)The female sex organs in chara is known as Diatoms is exhibited by _____ formations. (3)Write the name of scientist, who discovered (4) heterothallism in fungi? (5)What is the height of calamites plant? In the lifecycle of ectocarpus meiosis occurs during (6) zoospore formation in which type of sporangia? Write the habitat of caulerpa algae. (7)(8)What is the number of microspore produced by marsilea microsporangium? (9) Black stem of rust found on _____ host plant. (10) Define: Fungicides. (11) Write the name of the causal organisms of whip smut of sugarcane? (12) Write the name of disease caused by bacteria?

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	(13)	Algae coleochaete belongs to which order?	
	(14)	Define: Heterospore	
	(15)	Define: Plant pathology.	
	(16)	Write the division and class of sphagnum.	
	(17)	Write the habitat of chara.	
	(18)	Rhynia belongs to geological period calledperiod.	
	(19)	Write the symptoms of the red rot diseases of sugarcane.	
	(20)	In pellia, archegonia of the cluster are surrounded by which part ?	
2	(a)	Give the answers in short : (any three)	6
		(1) Describe the vegetative reproduction in chara.	
		(2) Write the use of Trichoderma.	
		(3) Define: smut.	
		(4) Write the character of Phaeophyceae	
		(5) Explain: Lepidodendron.	
		(6) Write short notes on Sphagnum leaf.	
	(b)	Give the answers in brief: (any three)	9
		(1) Write short notes: citrus canker.	
		(2) Write the differences between epidemic and endemic disease : (any six point)	
		(3) Give the anatomy of leaf in Ophioglossum with label diagrams.	
		(4) Describe mature Prothallus of Ophioglossum.	
		(5) Explain: tikka diseases of Ground nuts.	
		(6) Explain: Sporophyte of Sphagnum.	
	(c)	Describe in detail: (any two)	10
		(1) Explain the heterothallism in fungi.	
		(2) Sexual reproduction in coleochaet.	
		(3) Describe different methods of plant disease control.	
		(4) Write note on lepidodendron.	
		(5) Write the ten economic importances of diatoms.	

- 3 (a) Give the answers in short: (any three) 6
 - (1) Draw the label diagrams: rhizome T.S. of Marsilea.
 - (2) Draw the label diagram : spermocarp of coleochaete.
 - (3) Explain cell structure in ectocarpus.
 - (4) Describe the V.S. of pellia capsule structer
 - (5) Caulerpa has been placed in the order siphonales. Why?
 - (6) Describe sexual reproduction in chara.
 - (b) Give the answers in brief: (any three)
 - (1) Explain the gametophytes in isoetes.
 - (2) Explain: L. S. globule of chara.
 - (3) Explain the external features of Rhnia.
 - (4) Give the classification of calamites.
 - (5) Describe the sex evolution in algae.
 - (6) Draw the label diagrams of L.S. of sporangia in isoetes.
 - (c) Answer in detail: (any two) 10
 - (1) Draw the T.S. of petiole with label diagrams in marsilea.
 - (2) Describe cell structure of cell wall and reproduction in diatoms.
 - (3) Explain any four spores of fungi.
 - (4) Write the ten symptoms of plant diseases.
 - (5) Explain the life cycle of Ophiglossum with suitable diagrams.

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