

## BCF-003-1015037

Seat No.

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

**August - 2021** 

B - 501 : Botany

(Cryptogamic Botany And Plant Pathology)
(New Course)

Faculty Code: 003

Subject Code: 1015037

Time :  $2\frac{1}{2}$  Hours] [Total Marks: 70 **Instructions:** (1) Attempt any five questions out of the following questions. (2) Answer with draw neat and labelled diagram wherever necessary (3) Figures to the right side indicated total marks for the questions 1.(A) Answer the following Objective type questions: 04 (1) Which alga possess unilocular sporangia? (2) Caulerpa belongs to ..... order. (3) Male sex organ of *Chara* is also known as: (4) Mention true or false: Ectocarpuszoospore bears two unequal flagella. **(B)** Write the occurrence of *Caulerpa*. 02 (C) Explain vegetative reproduction in *Chara*. 03 **(D)** Write asexual reproduction in *Ectocarpus*. 05 2. (A) Answer the following Objective type questions: 04 (1) The neck of archegonia in Coleochetae is known as: (2) Name the one species of Coleochetae in which heterotrichous habitat is well represented. (3) *Ectocarpus* belongs to ...... Class. (4) ..... type of chloroplast is present in *Chara*. **(B)** Give the classification of *Ectocarpus* with reasons. 02 (C) Write a note on cell structure of Chara. 03

(D) Explain sex organs of Chara with diagram.

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05

3.	(A)	Answer the following Objective type questions:	04
	(1)	Peziza belongs to which fungal classes?	
	(2)	Which fungus is known as cup fungi?	
	(3)	Mention true or false : In Peziza, ascogenous hyphae	
		developed after fertilization.	
	(4)	Define – Zoospore.	
	<b>(B)</b>	Write vegetative structure of <i>Alternaria</i> .	02
	<b>(C)</b>	Give information about occurrence of Alternaria	03
	<b>(D)</b>	Describe Apothecium of <i>Peziza</i> .	05
4.(	<b>A)</b> A	answer the following Objective type questions:	04
	(1)	Alternaria belongs to class.	
	(2)	Early blight of potato is caused by	
	(3)	Mention true or false : In Peziza, hyphae is coenocytic.	
	(4)	Draw a labelled diagram of conidia of Alternaria.	
	<b>(B)</b>	Explain the life cycle of Peziza with the help of schematic	02
	(0)	presentation only.	
	(C)	Write the systematic position of <i>Peziza</i> with reasons.	03
	<b>(D)</b>	Describe reproduction in Alternaria.	05
5.(	A) A	nswer the following Objective type questions:	04
	(1)	The masses of sterile cells located at the base of the capsule of <i>Pellia</i> are known as:	
	(2)	The common name of <i>Sphagnum</i> is	
		How many neck canal cells are present in the archegonium of <i>Pellia?</i>	
		Give the Name of the branches which are found in <i>Sphagnum</i> .	
(	<b>(B)</b>	Write a note on <i>Pellia</i> archegonia.	02
(	<b>(C)</b>	Explain the internal structure of Sphagnum axis.	03
(	<b>(D)</b>	Describe – Internal structure of Pellia thallus.	05
6.	(A)	Answer the following Objective type questions:	04
	(1)	What do you mean by gametophytic phase of bryophyte?	
	(2)	Mention true or false: Pellia possess tuberculate rhizoids on	
	(2)	its ventral surface.	
		Name the bryophyte in which retrot cells are found.	
	(4)	Pellia belong toclass.	

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	<b>(B)</b>	Write note on <i>Pellia</i> antheridia.	02
	(C)	Write a note on – Dehiscence of capsule in <i>Sphagnum</i> .	03
	<b>(D)</b>	Describe – Internal structure of <i>Pellia</i> sporophyte	05
7.	(A)	Answer the following Objective type questions:	04
	(2) (3)	Sporangia in <i>Ophioglossum</i> are seen in the form of a	in
	(4)	Mention true or false: <i>Marsilea</i> is heterosporous species.	
	(B)	Write systematic position of Marsilea.	02
	(C)	Explain the internal structure of <i>Ophioglossum</i> rhizome.	03
	(D)	Describe – Sporocarp of Marsilea.	05
8.	. (A)	Answer the following Objective type questions :	04
	(1) (2) (3) (4) ( <b>B</b> )	The archegonium of <i>Ophioglossum</i> has	02
	(C)	Explain the internal structure of <i>Ophioglossum</i> rhizome.	03
	(D)	Describe – Ophioglossum spike.	05
9.	(A)	Answer the following Objective type questions:	04
	(1) (2) (3) (4)	Disappearance of chlorophyll in infected plant is called	
	(B)	Write controlling measures of Leaf curl of Papaya.	02
1	(C)	Write the symptoms of Red rot of sugarcane.	03
	<b>(D</b> )	Describe the symptoms, causal organisms and control of Citrus canker	05

10.	<b>(A)</b>	Answer the following Objective type questions:	04
	(1)	Mention true or false: Red rot of sugar cane is bacterial disease.	
	(2)	Bordeaux mixture consist of:	
	(3)	The disease symptoms give a burnt appearance in:	
	(4)	Write the causal organism of Red rot of sugar cane.	
(	(B)	Write controlling measures of Red rot of sugar cane.	02
(	<b>(C</b> )	Describe Different methods of Plant disease control.	03
(	D)	Describe the symptoms, causal organisms and control of Tikka disease of	05