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## THIRD SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2014

(U.G.—CCSS)

Complementary Course—Botany

3C 03—CRYPTOGAMS, GYMNOSPERMS, PLANT PATHOLOGY AND GENETICS (2012 Admission onwards)

			(2012 A	dmission	n onwards) same adone you and tadw. at		
2:	Thi	ree Hou	ırs		Maximum: 30 Weightage		
L	Ob	jective	type of questions. Each answ	ver in a s	ingle word. Answer all twelve questions.		
	1 In which of the following group would you place a plant which produce seeds but lacks f						
			Fungi.	(b)			
		(c)	Bryophytes.	(d)	Gymnosperms.		
	2	A Gyr	mnospermic plant:	Fig. comp			
		(a)	Bear flower.	(b)	Exhibit no vascular tissue		
		(c)	Produce seeds in cones.	(d)	Does not produce seeds in cones.		
	3	Large	est sperms are found in:		questions from seven		
		(a)	Pinus.	(b)	Cedrus.		
		(c)	Cycas.	(d)	Gnetum.		
	4	Pterid	lophytes are also called :		24 .Give an account on structure of figures		
		(a)	Phanerogams.	(b)	Vascular cryptogams.		
		(c)	Spermatophytes.	(d)	Amphibians of the plant kingdom.		
	5	Each g	gametes carry:	we strickly	27 Name two lungui diseases of Chicago.		
		(a)	Only recessive allele.	(b)	Only dominant allele.		
		(c)	Only one of the alleles.	(d)	All of these.		
	6	Fungi secrete extracellular enzymes to breakdown nutrients. True/False.					
	7		ndels Dihybrid cross, the ph		ratio of F2 for a single character is $9:3:3:1$		
	8		— produce basidiospores.				
	9	Riccia	belongs to Order ———.		A STATE OF THE STA		
	10	The cr	ossing of Fl to homozygous r	ecessive p	parent is called ———.		

- 11 Define Ascocarp.
- 12 What is latent virus?

 $(12 \times \frac{1}{4} = 3 \text{ weight})$ 

- II. Short answer type questions. Each answer in 3 or 4 sentences. Answer all nine questions.
  - 13 Name two different species of Selaginella. SC 08 CRYPTOGAMS GYMNOSPERMS, PLANT
  - 14 What is Bacteriophage?
  - 15 What are cyanobacteria?
  - 16 What is BGA?
  - 17 What is gametophyte?
  - 18 What is epistasis?
  - 19 Differentiate between test cross and back cross.
  - 20 What are the symptoms of blast disease?
  - 21 What is heterocyst?

 $(9 \times 1 = 9 \text{ weigh})$ 

- III. Short essay or paragraph questions. Each answer not exceeding 100 words. Answer an questions from seven
  - 22 Write the structure of TMV.
  - 23 Differentiate between Mastigimycotina and Ascomycotina.
  - 24 Give an account on structure of Spirogyra.
  - 25 Write a note on life history of Puccinia.
  - 26 Write a note on Lichens.
  - 27 Name two fungal diseases of Citrus.
  - Write a note on incomplete dominance of Mirabilis Jalapa.

 $(5 \times 2 = 10 \text{ wei})$ 

- IV. Essay questions. Each answer not to exceeding 300 words. Answer any two questions from
  - 29 Give a detailed account on reproduction and economic importance of bacteria.
  - 30 Give a general account and morphology and reproduction of Riccia.
  - 31 Explain the Laws of Mendelism.

 $(2 \times 4 = 8 \text{ we})$