

WEST BENGAL STATE UNIVERSITY

B.Sc. Honours 1st Semester Examination, 2019

BOTACOR01T-BOTANY (CC1)

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Time Allotted: 2 Hours			ull Marks: 40
		The figures in the margin indicate full marks. Candidates should answer in their own words and adhere to the word limit as practicable.	
1.	(b) (c) (d)	Answer <i>all</i> questions briefly from the following: Who proposed three domain system concept of classification? What is the causal organism of AIDS? What is Prophage? What is Corona?	1×5 = 5
	(e)	Why Phaeophyceae are brown in colour?	
2.		Answer any <i>five</i> questions from the following: (At least <i>two</i> questions from each Group) GROUP-A	$3 \times 5 = 15$
	(a)	Draw and describe the structure of T4 phage.	$1\frac{1}{2}+1\frac{1}{2}$
	(c)	Write short notes on Mycoplasma. Write a note on different type of plasmids with their function. Differentiate between Virulent and Temperate phage.	
GROUP-B			
	(f) (g)	What is 'dwarf male'? State its function. Write a note on <i>Prochloron</i> . Mention the characteristic features of Xanthophyceae. Describe the cellwall structure of Cyanophyceae.	5,4 - 20
3.		Answer any four questions from the following: (At least two questions from each Group)	$5 \times 4 = 20$
GROUP-A			
	. /	Write down the characteristic features of Archaea.	1 1
	(b)	Draw and describe the bacterial Growth Curve.	$1\frac{1}{2} + 3\frac{1}{2}$
	(c)	Draw and describe the process of transformation in any bacteria.	2+3
GROUP-B			
	(d)	Elucidate the ultrastructure of algal flagella.	
	(e)	With labelled diagram describe the external and internal structure of Fucus.	$2\frac{1}{2} + 2\frac{1}{2}$
	(f)	What is Cystocarp? Describe its structure. Name two economically important Rhodophyceae and mention its importance.	2 2

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