



## BOTANY PAPER - I : BOT-111 : BOTANY - I Bacteria, Viruses & Algae (114101)

P. Pages: 3

1.

Time: Two Hours Max. Marks: 60

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Instructions	to 1	ODE	diction!	00	
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- 1. Do not write anything on question paper except Seat No.
- Graph or diagram should be drawn with the black ink pen being used for writing paper or black HB pencil.
- 3. Students should note, no supplement will be provided.
- 4. Figures to the right indicate full marks.
- All questions are compulsory.
- 6. Draw neat diagrams wherever necessary.

a)	Atte	empt the following any six.						
	1)	Who discovered bacteria?						
		a) Leeuwenhoek	b)	Pasteur ·				
		c) Koch	d)	Mendel				
	2)	) Bacterial cell is						
	2.5	a) Eukaryotic	b)	Prokaryotic				
		c) Pseudokaryotic	d)	Multikaryotic				
	3)	Viruses are						
	-506	a) Heteroscopic	b)	Ultramicroscopic				
		c) Macroscopic	d)	Euroscopic				
	4)	Algae constitute an import	tant group	of				
		a) Thallophyta	b)	Bryophyta				
		c) Pteridophyta	d)	Angiosperms				
	5)	Spirogyra belongs to the o	class	-,				
	- 23	a) Chlorophyceae	b)	Phaeophyceae				
		c) Cyanophyceae	d)	Rhodophyceae				
	6)	Sargassum belongs to the class						
	0.000	a) Phaeophyceae	b)	Charophyceae				
		c) Cyanophyceae	d)	Rhodophyceae				

	7)	Study of ald	ae is known a				
	",	a) Mycolog		b)	Cytology		
		c) Phycolo		d)	Ecology		
	8)		Tomato' disea				
		a) Algae		b)	Fungi		
		c) Bacteria		d)	Viruses		
b)	Ex	olain the follow	ving in one se	ntence any	/ six.		
	41	Define consi	bacteria				
	1)	Define cocci	baciena.				
	2)	Explain the	mode of nutrit	ion in bacte	eria.		
	2)	AAALIAN IS SA			P 200 2 2 2 2		
	3)	vvnich is cat	isai organism	of citrus ca	anker disease.		
	4)	Give the che	mical compos	sition of ca	osid.		
			manger				
	5)	Define lytic of	cycle.				
	6)	What are ap	lanospores.				
	7)	Explain plan	ktonic habit of	algae.			
	8)	Define fragm	entation.				
							1
	Atte	empt the follow	ving any six.				12
	1)	Give any two	characters o	f bacteria.			
						4	
	2)	Symptoms o	f citrus canke	r disease.		* * *	
	3)	Asexual repr	oduction in ba	acteria.			
		0.7					
	4)	Any two livin	g characters	of viruses.			
	5)	Sketch & lab	el bacteriopha	age			
	٠,	OKCION & IAL	or bacteriopin	ago.			
	6)	Siphonaceou	us thallus in a	lgae.			
	7)	Acayual rope	oduction in S	nirogyra			
	1)	Asexual repi	oddction in <u>o</u>	Dilogyia.			
	8)	Use of airbla	dder in Sarga	ssum.			
	0)	Dalassiis	1				
	9)	Palmella sta	ge.				

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٥.	750	Attempt the following arry tour.				
	1)	Sexual reproduction in bacteria.				
	2)	Sketch & label ultrastructure of bacterial cell.				
	3)	Any three nonliving characters of viruses.				
	4)	Symptoms of Yellow Vein Mosaic disease of Lady's Finger.				
	5)	Occurrence of algae.				
	6)	Male conceptacle in Sargassum.				
4.	Att	empt the following any three.	12			
	1)	Characters of div. Cyanophyta.				
	2)	Sketch & label external morphology of Sargassum.				
	3)	General characters of algae.				
	4)	Symptoms & control measures of 'Leaf Curl of Tomato'.				
	5)	Describe Gram positive & Gram negative bacteria.				
5.	Attempt the following any two.					
	1)	Give the causal organism, symptoms & control measures of 'Black Arm' disease of cotton.				
	2)	Explain steps in reproduction of bacteriophage.				
	3)	Give economic importance of algae in Agriculture, Industry & Medicine.				
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