SEAT No.____



No. of Printed Pages: 02

[21]

SARDAR PATEL UNIVERSITY 3rd SEMESTER - B.Sc. USO3CMIC21

Elements of Microbiology-I

Date	311	2/2021	
Time	3-00	to 5-00	PM.

Day: Aday.
Total marks:70

	111110	. 0 00	10 0-00 1 W.			Total marks : 70	U				
Q.1		Selec	et the correct answer for v.	each q	uestion from	the options of	given 10				
	1	Who developed the use of antiseptic for the first time?									
	. 1	(a)					*				
		(c)	Joseph Lister.	(b)	Robert Koch.	SPIO PHINANE					
	2			(d)	None of these		ra and m				
	~	to ora	explained the importance of banic nitrogen?	aciena	in converting a	itmospheric nitr	ogen				
		(a)	Sergei Winogradsky.	(h)	Beijerinck W						
		(c)	Christian Hansen.	(d)	None of these		r. P. Science				
	3	. ,	of the following are component			2 //4/	6				
		(a)	Hook.	(b)	Filament.	1101	100				
		(c)	Basal body.	(d)	All of these.	(a; L	IBRARY)				
	4	` '	ion of stalk, as appendage, is		All of these.	1 *	10				
		(a)	Nutrient adsorption.	(b)	Attachment.	1	V. Nagat				
		(c)	Provide rigidity.	. ,	None of these	Defined Dya A					
	5	. ,	bacteria divide in one plane								
			scopy?	arra orro	We enam arran	genientin					
		1111010	зоору:								
		(a)	Streptococcus.	(b)	Stapylococcus	Villable nome a					
		(c)	Micrococcus.	(d)	None of these						
	6	Dyes	with anionic auxochrome grou								
		(a)	Neutral.	(b)	Acidic.	at entressed A					
		(c)	Basic.	(d)	None of these						
	7		dye can be employed for	r negati	ive staining tec	hnique.					
		(a)	Methylene blue.		Gention violet						
		(c)	Nigrosine.	(d)	None of these	essriq si lorka					
	8	The w	ord bacteriophage was coined	d by	daning 2 Wee						
		(a)	De Herelle.	(b)	Frederick Two	ort					
		(c)	Both (a) & (b).		None of these						
	9	(0)	_ can be used for cultiva	ation of	hacterionhad	e for cultivation	n of				
		bacter	riophage.	20011 01	bacteriopriage	o for Cultivatio	11 01				
		(a)	Chick embryo.	(b)	Tissue culture						
		()		(10)	riodae daltare						
		(c)	Both (a) & (b).	(d)	None of these						
	4.0										
	10	(-)	virus shows helical symm		77.47.7						
		(a)	Polio.	(b)	TMV.						
		(c)	Hepatitis.	(d)	None of these						

Q.2	2	(a (LIBRARY)	
	3 4	Give appropriate answers for the given blanks.	08
	В	State if the given statement are true or false.	
	1 2 3 4	H Schroder and T Van Dutch used cetters I	
Q.3	1 2 3 4 5 6 7 8 9 10 11 12	Answer the following short questions:-(Attempt any ten) Write contribution of Edward Jennar. What is pure culture? Who developed it for the first time. Enlist scopes of bacterial use in agriculture. Enlist functions of bacterial capsule. Write about composition of prokaryotic cytoplasmic membrane. Give examples of granules observed in bacterial cell. What are mordants? Give its examples. Define:- Dye.Also write its components. What is differential staining technique? Write its importance. What is numerical taxonomy? Enlist classification proposed by E.H.Haeckel. What is nomenclaturing? Write its importance.	20
Q.4		Answer the following long questions:-(Attempt any four)	
	7	Give detail on Germ theory of disease. Write on contributions of various scientists supporting Biogenesis. What is phase contrast microscopy? Write its mechanism and applications. What is Gram's staining? Write its mechanism in detail. Write an exhaustive note on :- "Bacterial cellwall." What are endospore? Write stages of sporulation along with diagram. Write a note on :- "Nucleic acid hybridization." Write in detail about Whittaker's five kingdom classification. ***********************************	32