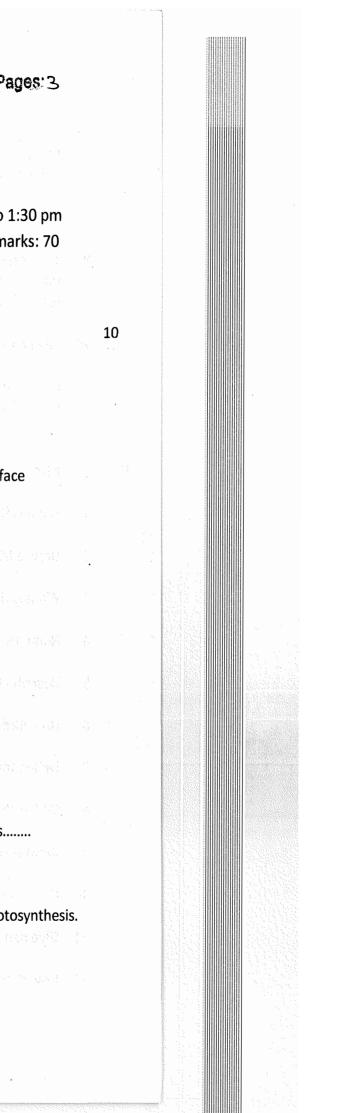
				(22	) SARDAR PAT	FI LINIVER	No. of Printe	d Pages:
					B.Sc. EXAMINAT			
					MICROBIOLOG			
					Microbial Dive	ersity & Ec	ology	
			Date: 22	2/11/20	13		Time: 10:30 ar	n to 1:30 p
		. 1	Day : Fri	iday			Tot	al marks: 7
e en la contra en ser a contra en la contra en		1	N.B: Fig	ures on	the right indicate marks	5.		
		(	Q.1	M.C.(	2. (01 - mark each)			
			1	The g	rowth hormone Gibberell	in is isolate	d from	
<ul> <li>Alternational data en la desta de la seguidada de la seguidada de la seguidada de la seguidada de esta de la seguidada de la Seguidada de la seguidada de la Seguidada de la seguidada de la Seguidada de la seguidada de la seguida Seguidada de la seguidada de</li></ul>		C	)	(a)	Gibberella fujikuroi	(b)	Aspergillus oryza	
				(c)	Penicillium notatum	(d)	NONE OF THESE	
				(0)		(4)		
			2	HIV i	nfects lymphocytes having	g:	receptors on their	surface
						<i>(</i> , )		
				(a)	CD <sub>4</sub> the final states that a			
				(c)	DC <sub>4</sub>	(d)	NONE OF THESE	
			3	Trans	mission of rickettsia to hu	man occurs	s via	
		a Transmission	-	(a)	An arthropod vector			
		an and the second second		(C)	Bacteria	(d)	fungi	
		and another a					na na santa sa	
			4		rrhizal association is an ex			
				(a)	commensalism	(b)		adi odratij
•	$\bigcirc$	0		(C)	Synergism	(d)	All of the above	
			5	The c	entral or axial filament in	fungal flage	lla is known as	
			Ū	(a)	endoparasite	(b)	sheath	at satura ba
	2			(C)	Axoneme	(d)	capsule	
			6		ntigen expressed on the c			d as
				(a)	HBs Ag	(b)	HBx Ag	
				(C)	HBc Ag	(d)	HBe Ag	
			7	Anox	genic phototrophic bac	teria do no	t evolveduring	photosynth
				(a)	$O_2$ is a static prior bit in	·	$\operatorname{AsN}_2$ there has the	
				(C)	CO <sub>2</sub>	(d)	H <sub>2</sub>	

.

1



			:			
		41. 化并基因注意。一个并且有基因素或含		: .		
	0		4			
	8	Ininteraction when one population produces substance inhibitory to another population.				
		(a) commensalism (b) amensalism				
		(C) Mutualism (d) neutralism				
				Q.3	(a)	Explain in short about unicellular thallus.
	9	The presence ofin the atmosphere is inhibitory to lichens.			(b)	Write a short note on sepa and septal pore in fungi.
		(a) $SO_2$ (b) $CO_2$		Q.3		OR Evaluit accovual reproduction in fungi
		(C) $NO_2$ (d) $PO_2$		Q.5		Explain asexual reproduction in fungi.
	10	The central pore of septa in basidiomycetes bears a pore cap, which is known		Q.4	(a)	Describe why a constant number of plaque forming units are found d
		as				latent period in one step growth experiment?
		(a) Membrane (b) chromosome	$\sim$	$\cap$	(b)	Write the classification of <i>pox</i> viruses.
		(C) None of these (d) Parenthosome				OR
				Q.4	(a)	How does Variola and Vaccinia virus differ? Describe the morphology of pox virus with a help of labeled diagram.
Q.2		Give short answers to the following questions. (Answer Any Ten)	20		(b)	Describe the morphology of pox with a neip of labeled diagram.
Q.2		one short answers to the following questions. (Answer Any Teny	20	Q.5	(a)	Explain difference between archeaobacteria and eubacteria.
	1	What is the difference between holocarpic and eucarpic fungi?	e		(b)	Write names of disease caused by <i>Rickettsia</i> spp and arthropod vecto
						OR
	2	Draw a labelled diagram of transverse section of fungal flagellum.		Q.5		Write notes on "Sulfur compound-metabolizing bacteria".
	•			0.0		Write an econy on reactive interactions among microhial community.
	3	What is the function of 'gag gene' in the reproduction of HIV?		Q.6		Write an essay on negative interactions among microbial community. OR
	4	Name the cells that are infected by HIV in human body.		Q.6		Write an exhaustive note on mutualism interaction.
				4.0		
	5	Describe the distinguishing features of Spirocheates.		-		
		water difference in the activity of the	$\bigcirc$	$\circ$		
	6	How Rickettsia differ from Chlamydia?				
	7	Define the terms Community and ecosystem.				
	/					
	8	Define the terms synergism and syntrophism.				
		<ol> <li>The colligen expression of the construct organizes where a second se</li></ol>				
	9	What is somatic copulation?				
	10	Define Viroids and Prions.				
	11	add ar feile gol ala, i ceitrar condendade degeneration fangerinde - So Cive names of four concernities môtoboling sulfur compounds - Cive - Ci				
	ΤT	Give names of four genera which metabolize sulfur compounds.				

12 How does a negative interaction act to maintain ecological balance?

.

2

	(05) (05)
	(10)
during	(06)
	(04)
1.	(06) (04)
ors.	(06) (04)

(10) (10)