[IO/A-5]

(a)

(c)

phase contrast

SEM

## SARDAR PATEL UNIVERSITY

Seat no.\_\_\_

B Sc SEMESTER TEXAMINATION : DEC-2019 FUNDAMENTAL OF MICROBIOLOGY

(US03CMIC01: MICROBIOLOGY)

		•			*##K				
	Date:	06/12/2019 Friday			Time: 2:00 to 5:00  Total marks: 70				
	Day:								
N.B			he right indicate marks	3.	Samuel Company of				
			_		€1.				
		Mult	tiple Choice Questions	5: -	<b>10</b>				
Q.1		Answer both code and word compulsorily.							
				A					
	1	The basic technique of plugging the bacterial culture tunes with cotton							
		was	initiated by						
		(a)	H Schroder and T	(b)	J. Lister				
			von Dusch						
		(c)	A. Flaming	(d)	Schulze & Schwann				
	2	2 Who observed microbes for first time and had hobby of							
		(a)	Glass painting	(b)	Viewing through binocular				
		(c)	Lens grinding	(d)	Glass manufacturing				
	3	ln w	nd background remains unstained?						
		(a)	negative	(b)	special and a second second				
		(c)	Differential	(d)	positive				
	4	Acid	fast stining is used for	eliminary diagnosis of					
		(a)	AIDS		tuberculosis				
		(c)			malaria				
	5	To o	bserve intracellular st	ructure	technique is used in EM.				
4									
		(a)	-		Supravital staining				
		(c)			Ultra thin sectioning				
	6		bacterial endospores						
		(a)	Staining	(b)	·				
		(c)	Heat	(d)	All of the options				
	7			n is known to have arrangement.					
		(a)			monotrichus				
		(c)	•		lophotrichus				
	8		prostheca functions in						
			absorb nutrients						
2		(c)	Survival 3D images can green	(d)	All of above.				
	9.	The	3D images can Seen	with $\_$	microscopy.				

( P.T.O)

(b) bright field

(d) TEM

	Ç.,					200					
		10.	The principle of Emitting longer wavelength of light and less energy is used in microscopy.								
			(a) (c)	phase contras SEM	•	Fluore TEM	scence				
	Q.2		Give short answers to the following questions. 20								
				empt Any Ten		×4.	1.47.51	- 2 -	. •	4 %	
		1		at is Phagocytosis							
	,	2		e contribution o			1.00				
		3	Who	had discovered	the free livin	ig N2 fix	ating bac	teria? W	rite role	of the	
			then	n in agriculture n	nicrobiology						
		4		it is supravital sta			ple.	ayers South	- 4 .		
		5		e the principle o					i i i i i i i i i i i i i i i i i i i		
		6		erentiate betwee			rdant.	:	•		
		7		t are pili? Write		ce.					
		8 '		brief idea of mu							
		9	Draw	v labelled diagrai	m of Gram po	ositive co	eli wall.				
		10	Write	e significance of	immune flor	escence	techniqu	e in micr	oscopy.		
		11	Give	brief view on Da	rk ground m	icroscop	y				
		12	Write	e significance of	phase contra	ist milcro	scopy.		41		
				ver following LO				1 1			
	Q.3		Write	e in detail note o	n abiogenisis	s and bic	genesis.		•	10	
				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		OR	1	4 - 7	*		
	Q.3		Narra	ate the contribut	ions of			• * •		,	
			Α	) Louis Pasteur.						06	
			В	) Edward Jenne	r.			to year		04	
1	Q-4		Write	e an essay on che	mistry of dy	es.				10	
						OR					
+	Q-4 a	3	What	t is Gram variabil	ity? Give pro		of Gram's	ctaining	<b>-</b>	05	
		b	Usefu	ulness of fixation	and decolor	ization i	n staining	o otalilije o proces	,	• • •	
(	~ =	<b>a</b>	Write	shore note on b	acterial can	izuciosi si sula	ii staiiiii	s process	•	05	
		b		ribe the ultra stri			حالمهم			05	
					acture or bat	OR	івсна.			05	
(	Q-5		Write	e a note on bacte	rial endosno				•	40	
	Q-6			e descriptive note			necony	ALC: 15		10	
	-		,			OR		* 1	( / ):	10	
(	Q-6		Write	e descriptive note	e on TFM	_ <b>~</b> ;\	*****	For A to the con-	1211	4.0	
	•				1111				1.15	10	

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