## A-11]

## SARDAR PATEL UNIVERSITY B.Sc.(4<sup>th</sup> Semester) EXAMINATION 2018 Monday, April 9<sup>th</sup>, 2018 10:00 a.m. TO 1:00 p.m.

## SUBJECT: MICROBIOLOGY US04CMIC01 (Fundamentals of Microbiology)

	,	Maximum Mark	s: /0		
Q.1.	Each question below gives a mult appropriate one.	iple choice of answers. Choose the most	[10]		
1.	Which of the following capsulated bacteria is responsible for dental caries?				
	(a) Lactobacillus bulgaricus	(b) <i>E.coli</i>			
	(c ) Corynebacterium diphtheriae	(d) Streptococcus mutan			
2.	The stomach usually contains a very low count of bacteria due to				
	(a) Neutral pH	(b) High pH			
	(c) Low pH	(d) Inhibitory action of bile			
3.	among the following is air borne disease.				
	(a)Tuberculosis	(b)Cholera			
	(c)Syphillis	(d)Malaria			
4.	Which of the following is used to prevent vortex formation in fermentar?				
	(a)Sparger	(b)Agitator			
	(c)Baffle	(d)DO probe			
5.	Which of the following instrument works on the principle of saturated steam under pressure?				
	(a) Autoclave	(b)Steam Arnold			
	(c) Hot Air Oven	(d) Pasteurization			
6.	An agent that kills growing forms of disease producing microorganism is called				
	(a)Sterilizer	(b)Disinfectant			
	(c ) Sanitizer	(d)Antiseptic			
7.	Which of the following has largest microbial population in human body?				
	(a) Skin	(b) Large intestine			
	(c) Eye	(d) Stomach			
8.	Botulinum toxin is classified as				
	(a) Neurotoxin	(b) Cytotoxin			
	(c) Enterotoxin	(d) Leukocidin	•		
9.	Which of the following is a method of disinfection and not sterilization?				
	(a) Steam under pressure	(b) Hot air oven			
	(c) Pasteurization	(d) Tyndallisation			

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	following?	dry climate results in to which of the		
	(a) Spore nuclei	(b) Droplet nucei		
	(c) Infectious nuclei	(d) Air nuclei		
Q-2 1.				
2.	Why lower respiratory track does not have normal flora? Justify.  Write about antiphagocytic factor with at least one example.			
3.	Define (a) Droplet (b) Droplet nucle			
4.	• • • • • •	industrially important microorganisms.		
5.	Define (a) Thermal Death Point (b)	Decimal Reduction Time		
6. Define (a) Sanitizer (b) Antiseptic		.,		
7. 8.	What is Bordeaux mixture? What is its significance? Write about desiccation to control the microorganisms.			
0.	write about desiceation to confor th	e meroorganisms.		
Q-3	[A] Write a note on- Normal flor		[04]	
	[B] Write a note on- Normal flor	a of gastrointestinal track. OR	[04]	
Q-3	Define gnotobiotic life? Dis germ free animals with their	cuss in detail about process of rearing uses.	[80]	
Q-4	[A] What do you mean by no resistance and individual res	atural resistance? Discuss about racial istance in detail.	[04]	
	[B] Write a note on-Active and I	Passive penetration. OR	[04]	
Q-4	[A] Differentiate between endote		[04]	
0.5	[B] Write a note on-Species resis		[04]	
Q-5	discuss any two methods in c		[04] [04]	
	CO] Write a note on- Significance	OR		
Q-5	Write a detail note on- Enun		[08]	
Q-6	[A] Explain basic design of ferm	entar with neat and labeled diagram.	[04]	
	[B] Write a note on-Role of mice	roorganisms in industry.	[04]	
		OR		
Q-6	fermentative production of I	,	[08]	
Q-7		encing action of antimicrobial agents.	[04]	
	[B] Write a note on- Filtration a	s a sternizing agent. OR	[04]	
Q-7	Justify- Moist heat is bet	ter than dry heat. Discuss the role of	[08]	
-	temperature as an antimicro		£ J	
Q-8.	Discuss in detail Mode of act (a) Gaseous agents (b) Halog	tion and Practical applications of en compounds	[08]	
Q-8	Write a detail note on Evalu	OR ation of antimicrobial chemical agents.	rno	
<b>Q</b> -0	Danier 1 2 2 2 2 2 1 2 1 1 1 1 1 1 1 1 1 1 1	— X ——	[08]	
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