Seat No.	:	
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P.T.O.

MN-143

March-2019

B.Sc., Sem.-VI

CC-308: Biochemistry (Advance Microbiology)

Tim	e : 2:3	Max. Marks: 70		
1.	(A)	Write	e a note on types of media for microbial growth.	14
			OR	
		(i)	Explain sterilization by moist heat.	7
		(ii)	Write a note on mode of action, uses and limitation disinfectant	of mercury as
	(B)	Expla	ain the following term : (Any four)	4
		(a)	Define Pasteurization.	
		(b)	Define chemolithotroph. Give example.	
		(c)	Give use of B-propiolactone and ethylene oxide.	
		(d)	What is the effect of UV rays on microorganism?	
		(e)	Define Sterilization.	
		(f)	What is tyndilization.	
2.	(A)) Explain different techniques of preservation of pure culture.		14
			OR	
		(i)	Describe the methods to measurement of bacterial growth.	7
		(ii)	Explain calculation of generation time and diauxic growth.	7
	(B)	Write	the answer in brief: (any four)	4
		(a)	Define thermophiles. Give an example.	
		(b)	Draw neat labelled figure of Growth curve of bacteria.	
		(c)	Define Barophilies . Give one example.	
		(d)	What are anaerobes? List different methods to cultivate anaer	robes.
		(e)	Define growth of Microorganism.	
		(f)	What are acidophiles?	

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3.	(A)	Write	a short note on Tuberculosis.	14
			OR	
		(i)	Explain the mode of action, use and limitation of Penicillin.	7
		(ii)	Write a brief note on general properties of antimicrobial agent.	7
	(B)	Answ	ver in brief: (any three)	3
		(a)	Give two non-medical uses of antibiotics.	
		(b)	Name the diagnosis test of Typhoid and AIDs.	
		(c)	Define chemotherapeutic index.	
		(d)	Give morphology of S typhi.	
		(e)	Give full of AIDS.	
4.	(A)	Write	a short note on Bioreactor design parts and functions.	14
			OR	
		(i)	Explain industrial production of Vinegar.	7
		(ii)	Explain any two types of reactors.	7
	(B)	Answ	ver the following: (any three)	3
		(a)	Define continuous batch culture.	
		(b)	Name the microorganisms used for production of Beer.	
		(c)	Define Fermentation process.	
		(d)	Name the microorganism used for production of penicillin.	
		(e)	What is batch and continuous fermentation process?	

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