Seat No.	:	.1		

SJ-124

September-2020

B.Sc., Sem.-VI

CC-308: Biochemistry

Tim	ne : 2 Hours] [Max. Mar	ks : 50
	SECTION – I	
	Answer, any three from the following:	
1.	Define Sterilization. Explain the mode of action, uses & limitations of the following	gas
	sterilizing agents: (i) Chlorine (ii) Hot Air oven	5. 14
2.	(a) Write a note on different nutritional categories of bacteria with examples.	7
	(b) Discuss the different types of Special Media used to culture bacteria.	7
3.	Define Generation Time. Explain growth curve of bacteria in detail.	14
4.	(a) Discuss the role of oxygen and water on bacterial growth giving examples.	7
1	(b) Write a note on: Preservation of bacterial cultures.	7
5.	Discuss in detail the transmission, pathogenesis, symptoms, diagnostic tests	s &
3,27	prevention of AIDS.	14
6.	(a) Write a note on : Drug Resistance.	7
	(b) Discuss mode of action, uses, resistance & limitations of Chloramphenicol.	7
7.	Discuss the industrial production of: (1) Beer (2) Biotransformation of Steroids	14

Explain the design and parts of a Bioreactor with a labelled diagram

SJ-124

(a)

(b)

8.

Write a brief note on types of fermentation process. P.T.O.

7

SECTION - II

9.	An	swer any eight from the following:	8
	(1)	What is the difference between Antiseptic and Disinfectant?	(1)
	(2)	What is full form of HEPA?	(1)
	(3)	Define undefined media.	(1)
	(4)	What is Oligodynamic action?	(1)
	(5)	What is Diauxic growth?	(1)
	(6)	Define Haloduric bacteria.	(1)
	(7)	Name any two methods used for cultivation of anaerobic bacteria.	(1)
	(8)	Give one example of a Thermophilic bacterium.	(1)
	(9)	What is the difference between an Antibiotic & a Drug?	(1)
	(10)	Name the vaccine used against Tuberculosis.	(1)
	(11)	List any one drug used in the treatment of Typhoid.	(1)
	(12)	Give two additional or other uses of Antibiotics.	(1)
		Define Fermentation.	(1)
		Give any two advantages of Packed Bed Reactor.	
			(1)
	(15)	List any two important requirements for a microbial based industry.	(1)
	(16)	Name the organisms used in Vinegar production.	(1)