

		(4) You spread an inoculum of mixed bacteria across
		an agar plate so that individual cells will give rise
		to dispersed bacterial colonies. This process is
		specifically referred to as
	(b)	Attempt any one of two from the following: 2
		(1) Lap phase
		(2) Secondary metabolites.
	(c)	Attempt any one out of two from the following: 3
		(1) Handling of Micro-organism.
		(2) Method used to measure the microorganism.
	(d)	Attempt any one out of two from the following: 5
		(1) Explain any 3 physical sterilization techniques.
		(2) Define growth. Explain different phases of growth.
3	The	following questions from Unit - 3:
J	(a)	Attempt the following objective questions: 4
	(a)	
		(1) Rifampin is an antibiotic inhibiting cell wall
		synthesis. (True or False)
		(2) Diphtheria is caused by which organism?
		(3) Antibiotics are a metabolite.
	4.	(4) MDR stand for
	(b)	Attempt any one of two from the following: 2
		(1) Bactericidal
		(2) Difference between exotoxin and endotoxin.
	(c)	Attempt any one out of two from the following: 3
		(1) Hepatitis
		(2) Describe Antibiotics affection on DNA/RNA Synthesis.
	(d)	Attempt any one out of two from the following: 5
		(1) How antibiotics affect Bacterial metabolism?
		Explain with one example.
		(2) Explain multidrug resistance of antibiotics in detail.
4	The	following questions from Unit - 4:
	(a)	Attempt the following objective questions. 4
	()	(1) The most commonly used microorganism in alcohol
		fermentation is
		(2) Salting, as a preservative plasmolyzes bacteria
		and fungi. (True or False)
		(3) In batch fermentation substrates are added to the
		system all at once and run until product is
		harvested. (True or False)
		(4) Which virus is used as Biopesticides ?
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	(u)	Atte	empt any one of two from the following:	4
		(1)	Properties of a useful industrial microbe.	
		(2)	Difference between primary and secondary	
			metabolites.	
	(c)	Atte	empt any one out of two from the following:	3
		(1)	Describe fermentation technology and their merits	
			and demerits.	
		(2)	Explain bioremediation.	
	(d)	Atte	empt any one out of two from the following:	5
		(1)	Explain fermentation process of ethanol.	
		(2)	Factors affecting growth of microorganism in food	l.
5	The	follo	wing questions from Unit - 5:	14
	(a)	Atte	empt the following objective questions.	4
		(1)	Phages that replicate only via the lytic cycle are	
			known as	
		(2)	Which bacteria use as the host organism for the	
			majority of work with recombinant DNA?	
		(3)	Who discovered penicillin?	
		(4)	Hemophilius influenza is a viral microorganism.	
			(True or False)	
	(b)	Atte	empt any one of two from the following:	2
		(1)	Describe Salmonella cause disease.	
		(2)	Application of Streptomyce.	
	(c)	Atte	empt any one out of two from the following:	3
		(1)	Biology of sacharomycescervisiae	
		(2)	Explain Bacillus thuregenesis.	
	(d)	Atte	empt any one out of two from the following:	5
		(1)	Describe E.Coli in detail.	
		(2)	Biology of Bacteriophage.	