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B.Sc. (Semester - VI) (Old) (CGPA) Examination Oct/Nov-2019 Biotechnology FERMENTATION TECHNOLOGY

			Biotechn FERMENTATION ⁻	_	•	
			ursday, 10-10-2019 1 To 10:30 AM		Max. Marks: 7	70
Instr	uction) All questions are compulsory. 2) Draw neat labeled diagram whe	ereve	r necessary.	
Q.1	Fill ir 1)		e blanks by choosing correct al mmon example of fermented bevo pickles bread and buns		_	14
	2)	a) b) c) d)	is mean by "Idiophase". Production of waste materials Production of topical products Production of primary metabolite Production of secondary metabolic			
	3)	a) c)	of the following is an upstreat Product recovery Media formulation	am pr b) d)	ocess. Product purification Cell lysis	
	4)	Alco a) c)	oholic fermentation is carried by y <i>Lactobacillus spps</i> <i>Bacillus spp</i> s	/east b) d)	Saccharomyces Cerevisiae Escherichia coli	
	5)	a) c)	is not fruit or vegetable bas Wine Vinegar	ed fe b) d)	rmented product. Beer Sauerkraut	
	6)	Cor a) c)	mpound that break the form are c Foam stabilizers Foaming agents	alled b) d)	Foam enhancer Antifoam agents	
	7)	a) c)	of the following is an antifoa Cotton seed oil Chloroform	m age b) d)	ent. Methanol Ethyl acetate	
	8)	Ecc a) c)	onomic fermentation of an industr Synthetic media Living media	ial pro b) d)	oduct is done by using waste as a raw material semi synthetic media	
	9)		per-disc method is example of Enzymatic Turbidimetric	b) d)	assay. End-point determination Diffusion	
	10)		l lysis becomes an important ope Extra cellular Toxic	ratior b) d)	if the product is Heat labile Intracellular	
	11)		Separation technique is base phases that is mobile and station Filtration Centrifugation		differential partitioning between Precipitation Chromatography	

	12)	solu a) c)	Method is used to separate oubilities in two different immiscibling Filtration Centrifugation	•	ounds on the basis of their relative ids. Liquid-liquid extraction Chromatography	
	13)	a) c)	Method is used to improve i Disc diffusion Protoplast fusion	ndust b) d)	rially important strains. Microbial inhibition spectrum End point determination	
	14)		nary screening of organic acid a ntified by use of pH indicating dyes Gradient plate technique	nd org b) d)	ganic amine producing organisms Dilution method Crowded plate technique	
Q.2	A)	Answer the following questions. (Any Four) 1) Give examples Antifoam agents. 2) Give function of Aeration and agitation in fermentor. 3) Microorganisms involved in amylase production. 4) Define synthetic and crude media. 5) Define disintegration method.				
	B)	Ans: 1) 2) 3)	wer the following questions. (A Different methods of Inoculum p Solvent recovery method for pu Turbid metric and End point De	repa rificat	ration. ion of fermented product.	06
Q.3	A)	Answer the following questions. (Any two) 1) Explain Submerged and Solid state Fermentations. 2) Explain Fermentation economics. 3) Explain Bio-insecticide production.				
	B)	Ans (1) 2)	wer the following questions. (a Explain Microbial growth Kinetic Explain detection of fermented	s in b	patch culture.	06
Q.4	A)	Ansv 1) 2) 3)	wer the following questions. (A Explain characteristics of an ide Explain Strain Improvement by Explain production of Ethanol.	al fer	mentation medium.	10
	B)	Ans (1) 2)	wer the following questions. (A Explain secondary screening. Explain application of computer	_		04
Q.5	Ans a) b) c)	Expl:	the following questions. (Any ain basic functions, components ain primary screening. ain different methods of purificat	and		14