	Enrollmo	ent No:	_ Exam Seat No:	
			UNIVERSITY amination-2018	
	Subject 1	Name : Bioprocess Technology		
	Subject	Code: 4LS04MBO2/4SC04BPT1	Branch : B.Sc. (Microbiology)	
	(2) I (3) I	ons:	· · · · · · · · · · · · · · · · · · ·	Marks: 70 bited.
Q-1	a) b) c) d) e) f) g) h) i) j) k) l) m) n)	Write names of two commercially Antibiotics are secondary metaboli Write names of two trace elements Write full from of SCP. A turbidostat is a continuous microprocessing refers to the products. (Downstream/Upstream) Write two types of industrial ferme Write the function of agitator in fer UV can be used for industrial strain A chemostat is a growth vessel into rate. True/False	ming agent in fermentation. True/False produced acids. Ite. True/False used in fermentation.  biological culture device. True/False recovery and purification of biosynthematical process.  rmentor.  n improvement. True/False of which fresh medium is delivered at a False	etic
Atte Q-2	mpt any f	four questions from Q-2 to Q-8 Attempt all questions		7
	a	What do you mean by upstream prechnology.	rocessing? Describe its importance in b	oioprocess
	b	Explain the process of industrial strain	n improvement by RDT.	7
Q-3	a.	Write short notes on- Centrifugation		7



Industrial media

b.

7

Q-4		Attempt all questions	
	a.	What do you mean aeration? Describe its role in fermentation process.	7
	b.	Explain the effect of temperature and pH on microbial growth.	7
Q-5	a.	Explain the following with suitable diagram- Batch fermentation	7
	<b>b.</b>	Continuous fermentation	7
Q-6	a.	Write short notes on- Membrane filtration	7
	b.	Fed-batch culture	7
Q-7	a.	Attempt all questions What is sterilization? Explain the physical methods of sterilization.	7
	b.	What is cell disruption? Explain the various methods of cell disruption used in downstream processing.	7
Q-8		What do you mean by fermentation? Explain the functions of various components of a typical fermentor.	14

