	DLOGY-I S.Y.B.Sc. SEM IV EXAM MARKS 75 All questions are compulsory. Draw diagram wherever necessary	
.1(A) Define the following terms.(Any Two)		(04)
1. Inoculum development	3. Fermentor	
2. Spargers	4. Solid state Fermentation	
1. Surface termentation can be	rrect if the statement is False.(Any Two) done by continuous method. be carried out in stirred tank reactors. aple of fermentation. irred tank fermentors.	(04)
1(C) Answer the following. (Any Two)		(12)
 Give an overview of fermer Significance and application How to maintain aseptic co Give significance and appli 	ntor design. ns of batch fermentation. nditions during fermentation. cations of continuous fermentation.	
2(A) Define the following terms	s. (Any Two)	(04)
 Lag Phase Synchronous Growth 	3. Turbidostat4. Stationary phase	
2 (B) State True or False and c 1. Death phase is the first phase 2. There are total four phases in 3. Bacterial cells tend to grow 4. Nutrient Factors doesn't infl	n a growth curve. exponentially.	(04)
C) Answer the following. (Any Two)		(12)
 Effect of environment a Write in brief about graj Give details of synchror Write an overview of m 	nous growth.	
3 (A) Define the following term	ns. (Any Two)	(04)
	3. Chromatogram	
1. Colorimeter	4. Beer's law	
2. Mobile Phase		Contd/2