Paper / Subject Code: 40203 / Fermentation Technology

1T00424 - S.E.(BIOTECHNOLOGY)(Sem IV) (Choice Based) / 40203 Fermentation Technology Q.P. Code: 50138

Duration: 3 Hours	Total Marks: 80
N.B: 1) Attempt any four questions 2) Each question carries twenty marks	
Q.1 (a) Explain solid state fermentation and submerged fer	mentation. (10)
(b) Explain different components of culture media for	microbial growth. (10)
Q.2 (a). Write short notes on fixed volume fed batch cultur	e. (10)
(b). Write a note on antibiotic production in industry e briefly?	xplain any one type (10)
Q.3 (a). What is del factor? Give significance of del factor batch sterilization process.(b). Explain microbial kinetics in batch culture.	during designing of (10) (10)
Q.4 (a). What is the basic function of fermenter? Explain in tank fermenter.(b). Discuss crab tree effect along with its applications	(10)
Q.5 (a). Write a note on strain improvement of industrial magnetical emphasis on rDNA technology.(b). Explain carbon catabolite repression with an example.	(10)