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B.Pharm Eighth Semester (C.B.S.) Examination

PHARMACEUTICAL BIOTECHNOLOGY AND MOLECULAR BIOLOGY

Paper—2

Time	e: Three Hours] [Maxim	num Marks: 80
N.B.	:— (1) Question No. 1 is compulsory.	
	(2) Solve any four questions from remaining.	
	(3) Draw neat labelled diagram wherever necessary.	
1.	Solve any five questions of the following:	
	(a) Explain in brief on Western Blotting.	
	(b) Write a note on Mammalian cell cultures.	
	(c) Write on Gene cloning.	
	(d) Explain the Fermentation Medium.	
	(e) Write on Cellular totipotency.	
	(f) What is meant by Fermentation Monitoring ?	
	(g) Explain the Monoclonal Antibodies.	5×4=20
2.	Define Fermenter Medium. Explain in detail construction, working and types of I	Fermenter. 15
3.	(a) Write about the different Plant Cell Culture techniques.	10
	(b) Explain Disaggregation of Tissue.	5
4.	Define Immobilization. Describe various methods of immobilization and discuss its disadvantages.	advantages and 15
5.	(a) Give a detailed account on Isolation of Vitamin \mathbf{B}_{12} .	10
	(b) Write the application of immobilized cell and enzymes.	5
6.	What is recombinant DNA Technology ? And enlist the tools for r-DNA Technology	ogy. 15
7.	Write short notes (any three):	
	(a) Genetic recombination in animal cell	
	(b) Cloning vector	
	(c) Media for Cultivation of animal cell	
	(d) Colony Hybridization.	5×3=15