B. Pharm. (Seventh Semester) EXAMINATION, Dec., 2011 PHARMACEUTICAL BIOTECHNOLOGY

[PY - 704(N)]

Time: Three Hours

Maximum Marks: 70

Note: Attempt any *five* questions. All questions carry equal marks.

- Discuss the kinetics of enzyme inhibition and action. Write about the enzyme immobilization techniques and applications in pharmaceuticals.
- Explain various parameters to be considered for fermentive production of antibiotics. Give complete account of fermentive production of Streptomycin and Vitamin B₁₂₋₁₄
- 3. Describe various uses of monoclonal antibodies. What is the basis of selection of hybridoma in the HAT medium ? 14
- 4. Write notes on any two of the following:
 - (i) Antigen-Antibody reaction and their application
 - (ii) Kinetics and factors affecting enzyme kinetics
 - (iii) Fermentative production of alcohol
- 5. What are the various methods of study of cell surface antigens? How can you isolate a particular antigen using antibody?

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Ä	suitable example.	vaccines	giving
7.	Write notes on any four of the following:	*	. 14
	Enzyme based sensors	¥.	14
	(ii) Drug delivery systems in gelie thereny		
	(III) Hybridoma technology		
	(iv) Hyaluronidase enzyme		
	(v) Fermenter and its design		
	(vi) Cellular humoral immunity		

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