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Subject Code: B133202/R13 III B. Pharmacy II Semester Supplementary Examinations Nov. - 2016 PHARMACEUTICAL BIOTECHNOLOGY

Time: 3 hours

Max. Marks: 70

Question Paper Consists of **Part-A** and **Part-B** Answering the question in **Part-A** is Compulsory, Three Questions should be answered from **Part-B** *****

PART-A

- 1. (a) What is R-DNA technology?
 - (b) Explain the collection of blood from humans.
 - (c) What are the antigen-antibody reactions?
 - (d) Explain immobilization of bacteria.
 - (e) What is fermentation? Classify it.
 - (f) What is the source of microorganisms used for the production of Lysin, Lactic acid, Riboflavin by fermentation?

[3+3+4+4+4+4]

PART-B

2. (a)	What is hypersensitivity? Explain the types of hypersensitivity reactions.	
(b)	Explain the preparation of any one living bacterial suspension type vaccine.	
	[1	[2+4]
3. (a)	Mention the applications of bioinformatics	
(b)	Explain the processing and storage of whole human blood and human	
	normal immunoglobulin injection.	
		5+10]
4. (a)	Explain the optimization of fermentation process.	
(b)	Explain the principle involving in downstream process and effluent treatment.	
		[8+8]
5. (a)	Explain the production of Humulin and Humatrop by genetic engineering.	
(b)	Explain the production of monoclonal antibodies by hybridoma technique.	
		0+6]
6. (a)	What is enzyme immobilization? Explain the methods of enzyme immobilization.	
(b)	Explain the profile of Streptokinase.	
	[1	[2+4]
7.	Explain the fermentation and purification of the following.	
	(i) Alcohol (ii) Acetone (iii) Streptomycin (iv) Riboflavin	
	[4+4+	-4+4]
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