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SET - 1

III B. Pharmacy II Semester Regular/Supplementary Examinations, April – 2018 PHARMACEUTICAL BIOTECHNOLOGY

Note: 1. Question Paper consists of two parts (Part-A and Part-B)

2. Answering the question in Part-A is Compulsory

3. Answer any THREE Questions from Part-B

PART -A

PART -A			
1.	a)	Differentiate between Humoral immunity and cell mediated immunity.	(4M)
	b)	Define enzyme immobilization and write its advantages over isolated enzymes.	(3M)
	c)	Mention the applications of proteomics and genomics.	(4M)
	d)	Write about the media and conditions used for Alcohol production.	(4M)
	e)	Write about the applications of bioconversion.	(3M)
	f)	Write a note on Strain improvement.	(4M)
<u>PART -B</u>			
2.	a)	Describe the fermentative production and recovery of Streptomycin and its uses.	(10M)
	b)	Describe the production and recovery of Lactic acid.	(6M)
3.	a)	Describe the production of Human Insulin by R-DNA Technology.	(10M)
	b)	Discuss about applications of monoclonal antibodies in clinical diagnosis.	(6M)
4	`		(10) (
4.	a)	Describe the design and operation of Bioreactor.	(10M)
	b)	Explain the principle and procedure involving in downstream process.	(6M)
5.	a)	Discuss about different techniques of immobilization of enzymes.	(10M)
	b)	Describe the importance of	(6M)
		a) Streptokinaseb) Amylase	
6.	a)	Define immunity. Write about antigen-antibody reactions.	(10M)
	b)	Write about active and passive immunization.	(6M)
7.	a)	Write about collection, processing and storage of Catgut.	(8M)
	b)	Explain about Plasma substitutes.	(8M)