Sem. I Pharm Brotechnology Morrch 2015

QP Code: 16119

(3 Hours)

[Total Marks: 100

N.B.	(1)	All	question	are	compulsory.
11000	(-)	4	7		

	1.	(a)	Name any two autoimmune disorder.	1
		(b)	Name any two application of monoclonal antibody.	1
,			Draw the structure of immunoglobuline.	1
			Write microbial limit of Lactose.	1
			Name two application of agglutination test.	1
			Give scope of pharmaceutical Biotechnology.	1
			Name any one subunit vaccine with organism involved.	1
		(h)	How will you isolate and confirm the presence of Salmonela typhi in the given	1
		(11)	sample of lactose.	
		(i)	Write two application of a biosensor.	1
		(i)	Give the types of fermenter.	1
			Differentiate between Active and passive immunity.	1
			Define phagocytosis.	1
		1	What is epitope and haptane.	2
			Explain the term avidity and affinity.	1
		(11)	Explain the term avidity and arrange.	
	2	(0)	Discuss the methods of enzyme immobilization and write one of the method in	3
	4.	(a)	detail.	
			OR	
		(-)	Write the types of microbial assay method write one of the method in detail.	3
		(a)	Classify biosensor and how will you identify glucose oxidese by biosensor technique.	3
		(D)	Short note on transgenic plan (any two exvivo method)	3
				2
		(a)	Define whole cell immobilization.	-
		, ,	With G. I. 1 of a stability C. Acadiation	
	3.	(a)	Write flow sheet of penicillin G production.	3
			(i) Upstream technique.	5
			OR	3
			(i) Down stream technique.	3
			Discuss in details preparation and standerdization of BCG vaccine.	
			Draw the labelled diagram of a fermenter.	3
:		(d)	Define salk and sabine polio vaccine.	2
				2
	4.	(a)	Discuss in detail production of monoclonal antibody.	3
			OR	•
			Draw labelled diagram of life cycle of bacteriophase λ.	3
	17.00	(b)	Write flow chart of gene library and enlist its application.	
		(c)	What are the types of antigen-antibody reaction write precipitation test technique	3
			and its application.	

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(d) Application of stem cell culture.		2
5. (a) What is DNA sequencing. Explain any one method. OR	y *	. 3
(a) Write the techniques of ELISA, any one method in details.(b) Short note on PCR.	n - 2	3
(c) Write gene therapy (any two method) (d) Application of recombinant DNA technology.		3
6. (a) Discuss different types of hypersensitivity with suitable example.		3
OR		
(a) Define restriction endonucleases with application and example.	,	3
(b) Ig- types and application.		3
(c) Write short note (any one)		. 3
(i) Fever		
(ii) Inflamation		
(d) Define virulance and nandemic disease		2

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