Year and Program 2023-24 T.Y.B. Pharm		Department: Pharmacy
Course Code: BP605T	Course Title: Pharmaceutical Biotechnology	Semester– VI
Date: 31 MAY 2024 Day: friday Time: 10:30AM To 01:30PM	Examination: End Semester	Max Marks:75

Instructions: 1) All questions are compulsory.
2) Draw a neat labeled diagram if necessary.

		Marks	Bloom's Level	CO
Q.1	**Objective Type Questions (10X2)**	**20**		
a)	Define monoclonal Antibodies.	02	1	2
b)	What is protected fermentation?	02	2	5
c)	What is protein engineering?	02	2	1
d)	Define immunity. Enlist types of immunity.	02	1	4
e)	What is difference between vaccine & Sera.	02	2	3
f)	Write any two applications of ELISA.	02	1	4
g)	Define vector along with two examples.	02	1	2
h)	What is hypersensitivity? Write its type.	02	2	3
i)	Define toxoids. Give two examples.	02	1	3
j)	What is Induced Mutation?	02	2	4
Q.2	**Long Answers (Answer 2 out of 3)**	**20**		
a)	Explain in detail about production & purification of Penicillin.	10	2	1
b)	Explain different methods of enzyme Immobilization with their advantages & disadvantages.	10	2	3
c)	What are Biosensors? Write its principle and its function.	10	2	1

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Q3	Short Answers (Answer 7 out of 9)	35	Bloom Level	CO
a)	Explain scope and application of Pharmaceutical Biotechnology.	05	2	1
b)	Define and explain types of fermentation.	05	1	5
c)	Explain in brief hybridoma technology.	05	2	3
d)	List out application of genetic engineering in medicine.	05	1	1
e)	Write in brief Western blotting technique and mention its types.	05	1	4
f)	Write in detail method of preparation of Insulin by Recombinant Technology.	05	1	2
g)	Describe method of production of Monoclonal Antibodies with its application.	05	2	2
h)	Explain different type of hypersensitivity reactions with example.	05	2	3
i)	Write a note on cloning vectors.	05	2	2

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