

Name. _____		Printed Pages:01		
Student Admn. No.: _____				
<b>School of Medical &amp; Allied Sciences</b> <b>Semester End Examination (SEE), Summer Term, August 2023</b> <b>[Programme: B.Pharmacy] [Semester: 2022-23 – Sem VI] [Batch:A ]</b>				
<b>Course Title: Pharmaceutical Biotechnology</b> <b>Course Code: BPHT6005</b>		<b>Max Marks: 100</b> <b>Time: 3 Hrs.</b>		
<b>Instructions:</b>	1. All questions are compulsory. 2. Assume missing data suitably, if any.			
		K Level	COs	Marks
<b>SECTION-A (15 Marks)</b>		<b>5 Marks each</b>		
<b>1.</b>	Explain the production vaccines.	K2	3	5
<b>2.</b>	Explain the following: i) ELISA ii) Southern blotting technique.	K2	4	5
<b>3.</b>	Explain the applications of biotechnology with regards to Agriculture.	K2	6	5
<b>SECTION-B (40 Marks)</b>		<b>10 Marks each</b>		
<b>4.</b>	Explain the role of microbes in biotechnology.	K2	1	10
<b>5.</b>	Model out the term “Enzyme Biotechnology” & “Enzyme immobilization” along with their applications.	K3	1	10
<b>6.</b>	Organize the role of biotechnology in rDNA technology & genetic engineering.	K3	2	10
<b>7.</b>	Experiment with the term “Vaccines & Interferons” in detail.	K3	2	10
<b>SECTION-C (45 Marks)</b>		<b>15 Marks each</b>		
<b>8.</b>	Simplify the term “Immunology” with its applications in detail.	K4	3	15
<b>9.</b>	Discuss the various Immuno-blotting techniques in detail.	K5	4	15
<b>10</b>	Explain the production of Penicillin, Citric acid & Glutamic acid	K5	5	15