	1 Hour Total Warks:	43
2. Al 3. Di	ttempt all questions. Il questions carry equal marks. raw neat labelled diagrams wherever necessary. se of log tables and non-programmable calculators is allowed.	
Q.1	Answer the following (Any 1)	08
a.	What are adjuvants? Discuss their types & roles.	
b.	Describe Mixed Lymphocyte Reaction and its applications.	
Q. 2	Answer the following (Any 1)	07
a.	Discuss peptide vaccines.	
b.	Elaborate the technique of RIA in immunological assay.	
Q. 3	Do as directed (MCQ/ True or false/ Match the columns etc.	10
1 ?.	Give any one example of subunit vaccines.,	1
2.	State true or false: DNA vaccines raise both humoral and cell mediated immunity.	1
3.	Give an advantage of Passive immunisation.	1
4.	Name any one plant used for preparation of plant based vaccines.	1
5.	How chimeric antibodies are created?	1
6.	Which among the following is NOT a system in which Neutralisation of animal viruses can be demonstrated? a) animals b) eggs c) synthetic media	1
7.	Western Blotting Technique is also known as immunoblot.	1
8.	State any one disadvantage of Flow cytometry.	1
9.	State True or False: The Ouchterlony method of antigen antibody reaction involves double diffusion in two dimensions.	1
10.	What is a complement fixation test?	1

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