AQ - 1021

Third Semester M. Sc. (Part-II) Examination

MICROBIOLOGY

Paper - XII Immunology

P. Pages: 2

Time: Three Hours)

[Max. Marks: 80

Note: All questions are compulsory and carry equal marks.

1. Discuss primary and secondary immume risponses.

OR

Describe in detail various cells of immune system.

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 Describe major classes of immunoglobulines by comparing their structures and properties.

OR .

- (a) Define the terms affinity, avidity, specificity and sensitivity of Ab Ag reaction. 8
- (b) Give the principle and clinical appliations of immufluorescence technique.

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3.	Describe the sequence of events when the classical pathway of the complement system is activated.
	OR
	(a) What are autoimmune diseases?
	(b) What are primary and secondary immune deficiency diseases. Give suitable example of each.
4.	Describe the classification of hypersensitivity and give detail account on type I reaction.
	(a) Differntiate between live and killed vaccines
	(b) Give the different theories of antibody diver sity.
5.	What are monoclonal antibodies? How are the produced?
	Give in detail the applications of monoclona antibodies.