

M.Sc. (Zoology) Third Semester Old
MSC10 / ZOO-10 - Immunology Paper-X

P. Pages : 1

Time : Three Hours



GUG/W/18/2316

Max. Marks : 80

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- Notes :
1. All questions are compulsory.
 2. All questions carry equal marks.
 3. Illustrate your answer with suitable diagram.

1. Give an account of innate and adaptive immunity. 16

OR

Write note on-

- a) Organs of immune system.
- b) Structure of antibody.

2. Describe the B-cell maturation, activation and differentiation. 16

OR

Write note on-

- a) MHC genes
- b) Regulation of complement system.

3. Describe the properties of cytokines, its receptors and cytokine-related diseases. 16

OR

Write note on-

- a) Leukocyte activation and migration.
- b) Types of hypersensitivity reactions.

4. Describe the immune response to infectious diseases. 16

OR

Write note on-

- a) Transplantation rejection.
- b) Roles of tumor antigens.

5. Attempt the following. 16

- a) Antigenicity.
- b) T-cell receptors.
- c) Acquired tolerance
- d) Radioimmunoassay.
