

B. Voc. (Medical Lab Technology)
Fifth Semester
BMLT- 503: Introduction to Immunology

Time allowed: 3 Hours

Max. Marks: 40

NOTE: Attempt five questions in all, including Question No. 1 which is compulsory and selecting one question from each Unit. All questions carry equal marks.

X-X-X

I. Very short answer type question:-

- a) Immunity
- b) Antigens
- c) Who discovered the vaccine?
- d) Antibody
- e) IgG
- f) Why Widal test used?
- g) B-cell
- h) Immuno-electrophoresis.

(8x1)

UNIT - I

- II. a) What is immune system? Write about the significance of active immunity in protection of diseases.
b) What is the lymphoid organs? Write its functions in biological systems.
- III. a) Write about the passive immunity and its significance in human body.
b) What are antigenic factors? How it is important for immunogenicity?

UNIT - II

- IV. a) What is the humoral immune response?
b) What is the immunoglobulin? How Immunoglobulin is significant in human diseases protection.
- V. a) What is antibody diversity? Describe its significance in diseases.
b) How the diverse types of antibodies produced in the immune system.

P.T.O.

(2)

UNIT - III

- VI. a) What do you mean cell mediated immunity? Write brief overview of its clinical significance.
b) What is the Tumor Necrosis Factors (TNF)? Describe in brief about their significances.
- VII. a) How you can produce monoclonal antibodies?
b) How B-cells are significant in human diseases protection?

UNIT - IV

- VIII. a) Why antigen-antibody interaction is important?
b) How immuno-diffusion assay is important for human diagnostics?
- IX. a) What is western blotting? Mentioned its application in the human diagnostics?
b) What is vaccine? How the vaccines are significant in human health.

x-x-x