

**B.Sc. IN MEDICAL LABORATORY
TECHNOLOGY (BMLT)**

Term-End Examination

December, 2014

**BAHI-011 : APPLIED SEROLOGY, IMMUNOLOGY
AND MICROBIOLOGY**

Time : 3 hours

Maximum Marks : 70

Note : Answer questions in Part-A and Part-B according to instructions in each part.

PART - A

Answer **any five** questions.

2+3+3

1. (a) What are Immunoglobulins ?
(b) Give illustrations of each class of Immunoglobulins.
(c) Describe the structure and function of IgG.

2. (a) What is meant by 'Complement System' ?
(b) Name the components of this system.
(c) Describe the Classical Pathway of Complement activation.

3. (a) What is meant by Autoimmunity ?
(b) Enumerate Autoimmune disorders.
(c) Illustrate pathogenic mechanism of any one of the autoimmune diseases.

4. (a) Define Immunity. 1+2+5
(b) Classify Immunity.
(c) Describe mechanisms of Innate Immunity.
5. (a) Define Antigen and Antibody. 2+2+4
(b) Name antigen-antibody reactions used in diagnostic microbiology.
(c) Discuss immuno-fluorescence methods.
6. (a) Define Hypersensitivity. 1+2+5
(b) Classify Hypersensitivity.
(c) Describe Type I Hypersensitivity.
7. (a) Define Hospital Associated Infection (HAI)
(b) What are the possible sources of HAI ?
(c) Describe "Hand Hygiene" and its importance in spread of nosocomial infections. 2+2+4

PART - B

8. Write short notes on **any five** : 5x6=30
- (a) ATOPY
 - (b) Immunodiffusion tests
 - (c) Activation of B-lymphocyte
 - (d) Heterophil antigen
 - (e) Live oral vaccines
 - (f) Monoclonal antibodies
 - (g) Clinical importance of Histocompatibility antigens
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