

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

Term-End Examination

December, 2013

**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 :

1. Define HLA system. Describe Major Human Histo-compatibility Complex (MHC) giving its significance. Mention HLA and Disease association. **2+3+3=8**

2. What are immunoglobulins ? Describe structure and functions of immunoglobulins. **2+3+3=8**

3. Define antigen and antibody reactions. Describe its role in diagnostic Laboratories. **2+3+3=8**

4. Define autoimmunity. Describe formation of autoantigen and autoantibody in various auto-immune disorders. **2+3+3=8**

5. Discribe the basic principle, performance, and uses of Flow Cell Cytometry (FCC). Indicate limitations of FCC. **2+3+3=8**

6. Define immunodiffusion. Describe various techniques of immunodiffusion and its applications in diagnostic microbiology. **2+3+3=8**
7. Define hypersensitivity. Describe Coomb's and Gel classification of hypersensitivity types. Indicate its significance. **2+3+3=8**

PART-B

8. Write short notes on **any five** of the following : **5x6=30**
- (a) Active immunity
 - (b) Immuno fluorescence assay (IFA)
 - (c) Immune responses
 - (d) T-Cell activation and interactions
 - (e) Immuno-electrophoresis (IEP)
 - (f) Immune paralysis
 - (g) Bacteriological examination of water
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