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

Term-End Examination

June, 2017

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

Time : 3 hours

Maximum Marks : 70

Note : Attempt any six questions. Question No. 8 is compulsory.

1. Define Hypersensitivity. Discuss in detail (type I) IgE mediated Hypersensitivity. 2+6=8
2. Enumerate commonly used antigen antibody reactions in diagnostic microbiology. Describe any one of them in detail. 4+4=8
3. Define Gel electrophoresis. Enumerate common Gels used in Gel electrophoresis. 2+6=8
4. Explain Flow Cytometer. Discuss in detail principles, uses and limitations of flow cytometer. 2+2+2+2=8
5. Describe in detail principles, uses and applications Polymerase Chain Reaction (PCR) 2+2+4=8
6. Define adaptive immunity. Briefly discuss cell mediated immunity. 2+6=8

7. Define immunoglobulin. Draw and Label immunoglobulin molecule. 3+5=8
8. Write short notes on **any five** of the following : 5x6=30
- (a) B - Lymphocyte
 - (b) HLA Complex (Human Leucocyte Antigen)
 - (c) Latex agglutination test
 - (d) Automation in microbiology
 - (e) Hospital acquired (nosocomial) infection
 - (f) Disease transmitted by water contamination
 - (g) Presumptive Coliform Count
 - (h) Coombs Classification of Hypersensitivity
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