

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

Term-End Examination

December, 2012

00485

**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. 5x8=40

1. Define Immunity. Classify Immunity and give examples. Give the differences between ACTIVE and PASSIVE immunity. 1+3+4

2. Define antibodies. Draw well label diagram of antibody molecule. Enumerate classes of antibodies. 1+5+2

3. Define Hypersensitivity. Classify it, giving examples. Explain Type I reaction in detail. 1+3+4

4. Define Antigens. List Types of antigen-antibody reactions and write importance of diagnostic serology. 1+3+4

5. What is Polymerase Chain Reaction (PCR) ?
Explain its principle briefly. Give applications in diagnostic microbiology. **2+2+4**
6. What is Presumptive Coliform Count ? Explain its principle, procedure and Interpretation. **2+2+2+2**
7. What is meant by NOSOCOMIAL Infection ?
Name organisms of Nosocomial infection. Explain steps to prevent nosocomial infection. **2+2+4**

PART - B

8. Write short notes on *any five* :

5x6=30

- (a) ELISA
 - (b) T lymphocytes
 - (c) Hapten
 - (d) Immunoglobulin A
 - (e) Delayed type Hypersensitivity
 - (f) Types of Immune Response
 - (g) HLA system in man.
-