No. of Printed Pages : 3

BAHI-011

00614

B.Sc. IN MEDICAL LABORATORY TECHNOLOGY (BMLT)

Term-End Examination

June, 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.* 5x8=40

1. Define Immunity. Classify Immunity and give examples. Discuss in detail Active immunity and its role in medical treatment. 1+3+4

2. Define Antibody. List the classes of antibodies. Discuss in detail the structure and function of Immunoglobulin M. 1+2+5

3. Define Hypersensitivity. Classify it, giving examples. Explain in detail Delayed Type Hypersensitivity. 2+2+4

4. What is ELISA ? What is its principle ? What are various types of ELISA mention their uses ? 1+2+5

5. What is the principle of the Polymerase Chain Reaction (PCR) ? Write procedure of PCR giving important steps. Enumerate applications in diagnostic microbiology. 3+1+4

6. Name the areas in microbiology where AUTOMATION has been successfully introduced. Discuss Blood Culture automation systems. 2+6

7. In a school hostel, ten boys suddenly developed diarrhoea and vomiting. The school doctor suspects water borne infection. Write causes and importance of water borne infections. 1+7

PART-B

8. Write short notes on *any five* : **5x6=30**

(a) β lymphocytes

(b) Counter Immuno Electrophoresis (CIEOP)

(c) Nosocomial Infection (Hospital Acquired infections)

(d) Immunoglobulin E

(e) HLA systems in man

(f) Mechanisms of Auto immunity

(g) Anaphylaxis.