

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

00293

**Term-End Examination
June, 2012**

BAHI-007 : IMMUNOLOGY

Time : 3 Hours

Maximum Marks : 70

PART - A

Answer *any three* of the following. Each carries
10 marks. **10x3=30**

1. What are immune responses ? Describe active immunity in detail.
2. Describe structure of immunoglobulin. Write in brief the clinical importance of immunoglobulins.
3. What are various types of antibodies ? Describe in detail the role of antibody detection in various diseases.
4. Describe in detail the principle, procedure and interpretation of widal test in diagnosis of various types of enteric fever.

PART - B

5. Write in brief on *any four* of the following : **5x4=20**
- (a) Gel diffusion techniques.
 - (b) Importance of I_gM.
 - (c) Structure and functions of antigen.
 - (d) Allergy.
 - (e) Laboratory diagnosis of syphilis.
6. Write short answers to the followings. **5x2=10**
- (a) Role of complement system.
 - (b) Vaccination programme.
 - (c) Precipitation reactions.
 - (d) T-cells.
 - (e) Coomb's and Gell classification.

PART - C

7. Write True (T) ; False (F) for the followings : 1x5=5

- (a) C3, C3a, C5, C5a are necessary for the flocculation tests.
- (b) Hyper sensitivity is beneficial response in immune system.
- (c) Liver, spleen, bone marrow, thymus are essential component of immunological apparatus.
- (d) I_gG and I_gM are detected by Immunogel diffusion techniques.
- (e) B-cell response is protective in delayed hyper sensitive reactions.

8. Fill in the blanks by choosing the appropriate from the following : 1x5=5

- (a) Flocculation technique is _____ reaction.

A : Antigen antibody

B : Immune adherence

- (b) I_gM is _____ seen in immune response.

A : Acute phase reactant

B : Late responsive globulin

- (c) Hapten is _____ .

A : Complete antigen

B : Incomplete antigen

(d) Anti Tetanus Serum (ATS) is used for _____ immunity.

A : Active

B : Passive

(e) Detection of Auto immune disorders is to confirm, presence of _____ .

A : Auto antibodies

B : In complete antibodies
