BAHI-011

~~	B.Sc. IN MEDICAL LABORATORY			
	TECHNOLOGY (BMLT)			
02	Term-End Examination			
0	December, 2015			
BAHI	-011 : APPLIED SEROLOGY, IMMUNOLOG			

BAHI-011 : APPLIED SEROLOGY, IMMUNOLOGY AND MICROBIOLOGY

Time : 3 hours

Maximum Marks : 70

Note : Answer any five questions from Q.No.1-7. Question No. 8 is compulsory.

Answer any five questions :

1. ((a)	Define antigen	and	antibody.	2+3+3

- (b) What is Indirect Immunofluorescent Antibody (IFA)? Give examples of various diseases in which diagnosis by IFA is helpful.
- (c) Hyper sensitivity reactions.

2. (a) What is active immunity ? 1+4+3

- (b) Describe in brief the mechanism of active immunity giving examples.
- (c) What are indications of passive immunity ? Give examples of passive immunity.
- 3. (a) Define immunodiffusion. 1+3+4
 - (b) Enumerate the diseases where ELISA technique is used for diagnosis.
 - (c) Write briefly on Automation and its applicability in present diognostic era.

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- 4. (a) What is immune paralysis? 1+4+3
 - (b) Illustrate mechanism of immune paralysis system.
 - (c) Give clinical application of immune paralysis.
- 5. (a) What are antigen antibody reactions ? 3+3+2
 - (b) Enumerate various antigen-antibody reactions used in clinical applicability.
 - (c) Use of Gel electrophoresis in laboratory diagnosis services.
- 6. (a) What is PCR (Polymerase Chain Reaction)?
 - (b) Use of PCR in clinical applicability. 2+3+3
 - (c) RT PCR in clinical diognostic applications.
- 7. (a) What is Flow Cell Cytometry (FCM)? 2+4+2
 - (b) On what principle FCM is based ?
 - (c) Clinical applications of FCM.

8. Write briefly on any five of the following : 5x6=30

- (a) Role of technical and Nursing Staff in Hospital acquired infection.
- (b) Spread and Prevention of nosocomial infections. (N and I).
- (c) Coliform bacterial count.
- (d) Bacteriological culture of water.
- (e) Role of automation in microbiology.
- (f) Quality control measures in microbiology.
- (g) Anaphylaxis.

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