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BAHI-011

B.Sc. IN MEDICAL LABORATORY TECHNOLOGY (BMLT)

Term-End Examination December, 2015

BAHI-011 : APPLIED SEROLOGY, IMMUNOLOGY AND MICROBIOLOGY

Time: 3 hours

00211

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.

- 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.