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BAHI-003

B.Sc. IN MEDICAL LABORATORY TECHNOLOGY (BMLT)

Term-End Examination June, 2016

00049

BAHI-003 : IMMUNO-HAEMATOLOGY AND BLOOD BANKING

Time: 3 hours Maximum Marks: 70

Note: Part A contains ten objective questions. Part B contains five short answer questions. Attempt all the questions. Part C contains six short notes. Answer any four questions. Part D contains four essay questions. Answer any three questions.

PART A

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2. Answer *true* or *false* for the following:

5×*1*=*5*

- (i) Naturally occurring antibodies react at room temperature.
- (ii) Rh antigen is found on RBC.
- (iii) Complement is present in stored blood.
- (iv) O blood group having high titre A and B antibodies can be transfused in emergency.
- (v) While drawing blood from donor the BP cuff should be inflated to a pressure of 70-80 mm Hg.

PART B

3. Write briefly about the following:

 $5 \times 2 = 10$

- (a) Cold Antibody
- (b) Sub-group of A
- (c) Donor Screening Test
- (d) Coomb's Serum
- (e) Fresh Frozen Plasma

PART C

- **4.** Write short notes on any **four** of the following: $4 \times 5 = 20$
 - (a) Indirect Coomb's Test
 - (b) Bombay Blood Group
 - (c) Antigen
 - (d) Cryoprecipitate
 - (e) Blood Grouping Antisera
 - (f) QC in Blood Bank

PART D

Answer any three questions.

3×10=30

- 5. (a) Define transfusion reaction. Classify the different types of transfusion reactions.
 - (b) How will you investigate a transfusion reaction under the following headings?
 - (i) Samples needed
 - (ii) Procedure
 - (iii) Interpretation

7+3=10

- 6. (a) Name the various components which can be prepared from whole blood and mention the uses of each component.
 - (b) Describe the preparation of Platelet Concentrate and Fresh Frozen Plasma. 4+6=10
- 7. (a) Describe Rh system.
 - (b) List the different methods for Rh typing and explain any one in detail. 3+7=10
- 8. (a) Enumerate the blood donation selection criteria in a blood bank.
 - (b) Write the various laboratory procedures you would do to screen the donor. Give reasons for each. 3+7=10