B.Sc. IN MEDICAL LABORATORY TECHNOLOGY

Term-End Examination

December, 2015

BAHI-003 : IMMUNO-HAEMATOLOGY AND BLOOD BANKING

Time: 3 hours Maximum Marks: 70

Note: Part-A contains two objective questions.

Part-B contains one short answer questions which is compulsory.

Part-C contains one short notes, which is compulsory.

Part-D contains four essay questions, answer any three of them.

PART - A

1. Fill in the blanks:

1x5=5

- (a) ABO blood group was discovered by
- (b) Blood containing treponema pallidum if transfused to recipient develops
- (c) The volume of ACD needed to collect 500 mL of blood is _____ mL.
- (d) The genotype of group A is AA or
- (e) Du positive donor should be considered as Rb ______.

2. Write True or False:

1x5=5

- (a) Most of immune antibodies are 1 gM
- (b) O blood group contain A and B antibody in the serum.
- (c) In ICT, the sample used is red cells.
- (d) The platelet concentrates should be kept at 20 24°C.
- (e) Rouleaux formation can give false agglutination.

PART - B

3. Write briefly about following

2x5=10

- (a) A_1 lectin.
- (b) Direct coomb's test.
- (c) Minor cross match.
- (d) Haemapheresis.
- (e) Delayed transfusion reaction.

PART - C

- 4. Write short notes on any four of the following:
 - (a) Reverse Grouping Methods.

5x4 = 20

- (b) Citrate Phosphate Dextrose Adenine (CPD-A).
- (c) Antibody titre.
- (d) Blood components.
- (e) Naturally occuring antibodies.
- (f) Equipments used in Blood Bank.

PART - D

	Ans	wer any three questions: 10x	3=30
5.	(a)	Define compatibility testing in blood bank.	1
	(b)	What are the different types of cross matches? Describe in detail any one .	6
	(c)	List the causes of false agglutination in cross match.	3
6.	(a)	What is the cause of HDN ?	3
	(b)	Name the different types of HDN. Write the main findings in the blood of mother and baby in these cases.	7
7.	Following a blood transfusion, a patient passed dark brown coloured urine :		
	(a)	What are the possible causes for the above patient?	4
	(b)	How will you investigate and interpret the results?	6
8.	(a) 🔻	What are ABO blood groups ?	1
	(b)	Describe the procedure for ABO grouping.	6
	(e)	Write the procedure of reverse blood grouping.	3