B.Sc. IN MEDICAL LABORATORY TECHNOLOGY

Term-End Examination

December, 2013

BAHI-003 : IMMUNO-HAEMATOLOGY AND BLOOD BANKING

11me: 3 Hours			Maximum Marks: 70		
			PART - A		
1.	(a)	Fill i	in the blanks. $1x5=$	=5	
		(i)	In back typing, agglutination with 'A' cells identifies the individual as group		
		(ii)	Blood for transfusion purpose should be stored at°C.		
		(iii)			
		(iv)	antibody can pass placental barrier.		
		(v)	The 'ABO' blood groups were discovered by		
	(b)	Wri	te True/False for the following		
		state	ements. 1x5=	=5	
		(i)	ABO antigen is found on RBC.		
		(ii)	Commercial anti A grouping sera is		
		• •	yellow colour.		
		(iii)	Genotyping is the study of genetic makeup derived from father and		
		<i>.</i>	mother.		
		(iv)	Bombay group has anti 'H' antibody in serum.		
		(v)	The indirect antihuman globulin test uses patients serum.		

2.	Write (a) (b) (c) (d) (e)	e short notes on the following: Subgroup of 'A' D ^U typing Cryoprecipitate. Cold antibodies. Equipment needed in blood bank.	2x5=10
3.	Write (a) (b) (c) (d) (e) (f)	e short notes on <i>any four</i> of the following: Quality control in Blood Bank. Indirect coombs test Naturally occuring antibodies. Donor screening tests. Different features of Rh HDN.(Hemolyti Disease of Newborn) Lectin.	4 x5=20
		PART-B	
4.	Ansv 10 m (a) (b) (c)	ver <i>any three</i> questions. Each question carrie arks: What are ABO blood groups? Describe the procedure of ABO grouping. Explain the advantages of reverse blood grouping.	0x3=30 2 5
5.	(a) (b) (c)	Define compatibility testing in blood bank What are the different type of cros matches? Describe any one in detail. List the possible causes of false agglutination in cross match.	s 6
6.	(a) (b)	Enumerate different components prepared in Blood Bank. Describe preparation of Fresh Frozen Plasma (FFP).	

7. Following blood transfusion, a patient has passed red coloured urine. The doctor suspect that the patient is having transfusion reaction.

(a) Define transfusion reaction.

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(b) Explain how will you investigate the cause of this reaction and interpret the results.