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UNIVERSITY OF JAFFNA, SRI LANKA BACHELOR OF SCIENCE IN MEDICAL LABORATORY SCIENCES THIRD YEAR SECOND SEMESTER EXAMINATION-AUGUST 2016

MLSTM 3202 TRANSFUSION MEDICINE PAPER II

DATE: 10.08.2016 TIME: 2 1/2 Hours

ANSWER ALL EIGHT QUESTIONS

1.				
	1.1. What are the main pathogens responsible for transfusion transmitted			
	infection	ons?	(25 Marks)	
	1.2. List the	e main infections which could currently be tested in Sri Lankan		
	blood	transfusion service and mention the testing methods available to		
	each ir	nfection.	(30 Marks)	
	1.3. What are the methods available in the transfusion practice in order to			
	minim	nize the transmission of transfusion transmitted infections?	(20 Marks)	
	1.4. Mentio	on 5 situations which can cause bacterial contamination of blood		
	compo	onents.	(25 Marks)	
2.				
	2.1. What a	are the types of blood bags available for blood collection?	(20 Marks)	
	2.2. Mention the type of blood bag which is used to prepare leuko reduced			
	red cells, mention the contents of anticoagulant solution inside that particular			
	bag an	d mention the action of each content.	(24 Marks)	
	2.3. List 6	blood components available in the blood bank.	(06 Marks)	
	2.4. Mentio	2.4. Mention their storage conditions and shelf life of the components you		
	mentio	oned in 2.3.	(25 Marks)	
	2.5. Give 2	2 indications for each component you have mentioned in 2.3.	(25 Marks)	

5.			
	3.1. Define the Autologous blood transfusion.	(10 Marks)	
	3.2. List the types of autologous blood transfusion.	(10 Marks)	
	3.3. Mention the advantages of autologous blood transfusion compared to		
	allogeneic blood transfusion.	(20 Marks)	
	3.4. Mention the contraindications for autologous blood transfusion.	(20 Marks)	
	3.5. Briefly describe the procedures in acute normovolumic haemo dilution.	(40 Marks)	
4.	. Write short notes on,		
	4.1. Stem cell transplantation	(40 Marks)	
	4.2. Preparation method of platelets from quadruple bag	(60 Marks)	
5.			
	5.1. Define acute transfusion reaction and delayed transfusion reaction.	(10 Marks)	
	5.2. Give five examples for acute immune mediated transfusion reactions.	(25 Marks)	
	5.3. What is the main cause for acute hemolytic transfusion reaction?	(05 Marks)	
	5.4. Mention the two complications of acute haemolytic transfusion reaction.	(10 Marks)	
	5.5. Mention five important clinical features of acute haemolytic transfusion		
	reaction.	(15 Marks)	
	5.6. Give five laboratory evidence of acute haemolytic transfusion reaction.	(15 Marks)	
	5.7. Briefly describe how to prevent acute haemolytic transfusion reaction.	(20 Marks)	
6.			
	6.1. What is haemolytic disease of new born?	(15 Marks)	
	6.2. Mention the four main antibodies that course the haemolytic disease		
	of new born.	(20 Marks)	
	6.3. List five causes for feto maternal haemorrage.	(25 Marks)	
	6.4. Briefly describe the pathophysiology of haemolytic diaese of new born.	(40 Marks)	

7.					
	7.1. Define forward grouping.	(15 Marks)			
	7.2. Briefly describe the procedure of forward grouping.	(40 Marks)			
	7.3. Define reverse grouping.	(15 Marks)			
	7.4. Mention the importance of reverse grouping.	(10 Marks)			
	7.5. Mention two conditions does NOT require reverse grouping.	(20 Marks)			
8.					
	8.1. Mention the three types of blood donation.	(30 Marks)			
	8.2. What type of blood donation is mostly welcomed in Sri Lanka?	(10 Marks)			
	8.3. Mention the deferral period for the following conditions:				
	8.3.1. Following a miscarriage.	(05 Marks)			
	8.3.2. Following complete recovery of major surgery.	(05 Marks)			
	8.3.3. Following a tetanus toxoid vaccination.	(05 Marks)			
	8.3.4. Following the full recovery of chickenpox.	(05 Marks)			
	8.3.5. Following the full recovery of dengue fever.				
		(05 Marks)			
	8.4 Mention the seven components of the quality system essentials	(35 Marke)			