

UNIVERSITY OF JAFFNA, SRI LANKA BACHELOR OF SCIENCE IN MEDICAL LABORATORY SCIENCES FOURTH YEAR SECOND SEMESTER EXAMINATION – APRIL 2020 MLSIH 4225 IMMUNOHAEMATOLOGY PAPER II

Date: 20.07.2020

ANSWER ALL EIGHT QUESTIONS

NSWER ALL EIGHT QUESTIONS	
 What are the blood components prepared from whole blood in triple bag system and write their definitions. 	(30 Marks)
1.2. Explain how the above mentioned components are prepared from whole	(30 Marks)
1.3. List the quality parameters of Red cell concentrate (RCC) and how do you check the quality of Platelet product as MLT in blood bank.	(40 Marks)
2. 2.1. Define Quality Assurance in the Blood banks.	(10 Marks)
2.2. What are the important factors in comprehensive Quality Assurance programme in the blood bank settings?	(30 Marks)
2.3. List the reagents antisera should be tested for daily quality control and how do you performed daily quality control of Antisera reagents?	(40 Marks)
2.4. List the reagent red blood cells use for immunohaematalogical investigat doing in the blood bank.	tions (20 Marks)
3. 3.1. What are the important fields on standardized test requisition form?	(20 Marks)
3.1. What are the important fields of the samples at blood by the samples at blood by the samples are the samples at blood by the samples are the samples are blood by the samples are the sam	(20 Marks)
for immunohaematalogical tests? 3.3. List out important field (information) in blood component label. 3.4. What type of blood samples require for the following tests performed in	(20 Marks)
blood banks?	(10 Marks)
3.4.1 Donor pack grouping3.4.2 Microbiological test (TTI) for donor blood	(10 Marks)
3.4.2 Microbiological test (111) for donor blood 3.4.3 Pre transfusion compatibility tests	(10 Marks)
3.4.4 Direct antiglobulin test	(10 Marks)
4. Write short notes on	(40 Marks)
4.1 Antiglobulin test	(30 Marks)
4.2 Errors encountered in ABO grouping	(30 Marks)
4.3 Frozen Red cells	(50 11101115)

5.		The second secon	**
	5.11	What are the different categories of blood donors?	(30 Marks)
		State the eligibility criteria for selection of donor in Sri Lankan	(
		plood service.	(30 Marks)
	5.31	Discuss the steps that the blood bank has to take when donor unit is tested	()
		or TTI.	(40 Marks)
			,
6.	An	3 year old girl who is on regular transfusion for thalassemia Major developed	
	rigors and fever 10 minutes after starting a blood transfusion. She passed dark colored		
		ne shortly afterwards.	
	6.1	What is the probable diagnosis?	(10 Marks)
	6.2	What is the immediate management of this child?	(50 Marks)
		State briefly the steps taken in the blood bank to prevent such an event.	(40 Marks)
7	Llaa	of ontion contents and antimatalateless the continue that the cont	
7.	Use of anticoagulants and antiplatelet therapy in patient care is supported by		
		ratory tests for the optimization of patient outcomes.	
	7.1	State the sample which is collected from the patient for monitoring of	(20 14 1)
	7.2	anticoagulant therapy.	(20 Marks)
	7.3	State four rejection criteria for the sample mentioned in 7.1.	(12 Marks)
	7.5	State the sample used for testing to monitor anticoagulant therapy stating	
		critical aspects of its preparation and how you would assure quality of the sample prepared for testing.	(20 M - 1 -)
	7.4		(28 Marks)
	7.5	Outline principles of platelet function assays.	(20 Marks)
	1.5	Outline key issues related to "standardization" of platelet function assays.	(20 Marks)
8.	Imm	Immunonhonotyming and malacular diagnostics are sure in the Control of	
0.	Immunophenotyping and molecular diagnostics are very important for the diagnosis and management of haematological neoplasia. Immunophenotyping include flowcytometry		
		it plays a key role in classification of neoplasia. From conventional PCR	ytometry
		quencing, genetic testing has evolved and required for characterization of	
		natological disorders.	
	, iour	attorogram disorders .	
	8.1	Describe how a single file of cells is achieved in flowcytometry.	(15 Marks)
	8.2	Outline principles of cell identification in flowcytometry.	(20 Marks)
	8.3	State briefly how different colour signals are separately captured/identified	(20 Marks)
	200 3000	in flowcytometry.	(20 Marks)
	8.4	Compare and contrast conventional PCR and sequencing.	(25 Marks)
	8.5	Outline why flowcytometry and molecular genetics are useful in monitoring	(20 Marks)
		turning the same of the same o	

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(20 Marks) '

treatment response.