UNIVERSITY OF JAFFNA, SRI LANKA BACHELOR OF SCIENCE IN MEDICAL LABORATORY SCIENCES SECOND YEAR FIRST SEMESTER EXAMINATION – OCTOBER 2019 MLSHE 2125 HAEMATOLOGY I

PAPER II

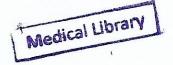
Date: 28.10.2019 Time: 2 Hours

ANSWER ALL EIGHT QUESTIONS

1.	Use of anticoagulants is mandatory for almost all the haematology tests.		
	1.1.Name two anticoagulants used for haematological tests.	(10 Marks)	
	1.2. Mention the recommended concentrations of each mentioned in 1.1.	(15 Marks)	
	1.3. Name two (2) haematological tests done for each anticoagulant stated. Indicating		
	ratio of anticoagulant to blood required.	(20 Marks)	
	1.4. Write the mode of action of each anticoagulant	(20 Marks)	
	1.5.Briefly describe the effects of excess anticoagulant on haematological tests.	(35 Marks)	
2.			
	2.1. Define the term "haemopoiesis".	(10 Marks)	
	2.2. Mention the sites where haemopoiesis occur during fetal life and changes	,	
	of haemopoiesis expected after birth.	(30 Marks)	
	2.3. Write the schematic diagram of granulopoiesis.	(20 Marks)	
	2.4. Describe the typical Morphology of Monocyte and Eosinophil	(20 Marks)	
	2.5. List two (2) causes for increase of each white blood cell type.	(20 marks)	
3.	Automated haematology analyzers are widely used in haematology laboratories.		
	3.1. Name two (2) techniques used for cell count in automated haematology analyzer.		
		(10 Marks)	
	3.2. Write the principles of each technique mentioned in 3.1.	(30 Marks)	
	3.3.List four (4) advantages of using automated haematology analyzer.	(10 Marks)	
	3.4.Outline how you would troubleshoot abnormal full blood count results in		
	automated machine	(30 Marks)	
	3.5.Describe calibration requirements of automated FBC analyzers	(20 Marks)	

(30 Marks)

on thin film.



8.

8.1.Define the term factitious thrombocytopenia indicating possible	e causes. (20 Marks)		
8.2.Discuss how you would troubleshoot factitious thrombocytoper	nia (30 Marks)		
8.3.Discuss different methods available for haemoglobin estimation	n. (30 Marks)		
8.4. Outline how you would assure quality of results in manual Haemoglobin			
estimation method.	(20 Marks)		