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FACULTY OF ALLIED HEALTH SCIENCES, UNIVERSITY OF RUHUNA Department of Medical Laboratory Science Third End Semester Examination - 2019/2020 Batch - February 2023 MLS 2144 Basic Haematology - SEQ

Date: 13th February 2023

Time: 09.00 a.m. - 10.00 a.m.

Duration: 01 hour

Answer all questions.

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Index Number:	

01			
	1.1	Briefly explain two principles used in automated Full Blood Count (FBC) analyzer.	20 marks
	1.2	List five advantages and five disadvantages of automated FBC analyzer.	10 marks
	1.3	Briefly explain how spurious test results are generated in automated FBC analyzer giving different examples and parameters.	50 marks
	1.4	State the instances where you would calibrate the automated FBC analyzer.	20 marks
02		A 40 years old female patient with past history of resection of terminal ileum in childhood presented with shortness of breathing on exertion. Her FBC revealed following results.	
		Hb 6.2 g/dl	
		MCV 115 fl WBC 3.5x 10 ⁹ /L	
		Platelet 98 x $10^{9}/L$	
	2.1	Comment on above investigation findings.	20 marks
	2.2	What is the most likely diagnosis? Explain your answer.	15 marks
	2.3	List five abnormalities you would expect to see in her peripheral blood film as per the diagnosis mentioned in 2.2.	25 marks
	2.4	List three abnormalities you would expect see in her bone marrow aspiration as per the diagnosis mentioned in 2.2.	15 marks
	2.5	Mention other investigations which are useful to confirm your diagnosis and their expected results.	25 marks
03			
	3.1	Define the term 'Anaemia'	10 marks
	3.2	Briefly describe the classification of anaemia based on red cell morphology	30 marks
		giving examples.	
	3.3	Briefly describe dimorphism in Iron deficiency anaemia (IDA).	20 marks
	3.4	List four laboratory tests useful in the diagnosis of IDA and state the expected	40 marks
		findings in each in IDA.	