B.Sc. Medical Laboratory Science Degree Programme
Faculty of Medicine, University of Ruhuna
Year End Examination – Year 1 – 2017 – 08th Batch

Medical Laboratory Practice - MLS 1104

Friday 03rd February 2017

riday oo Tebruary 2017 III	ne: 8.30 a.m. – 9.30 a.m. Duration: 1 hour
Answer all questions.	Index No:
1.	
1.1. Write three precautions that	t have to be taken when handling an autoclave.
	(06 marks
1.2. Write two uses of an autoclav	ve for a laboratory. (08 marks
	· · · · · · · · · · · · · · · · · · ·
4.2 Nome that	
	hould be kept/maintained when using an
autoclave in a laboratory.	(06 marks)
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1.4. Write short notes on the following.		
	1.4.1. Standard curve	(15 marks
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	1.4.2 Applytical grade at a second	
	1.4.2. Analytical grade chemicals	(15 marks)
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	03 60 80
1.4.3. Beer-Lambert law	(15 marks
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1.5. Compare and contrast the Analytical Balance and	
and Amerytical balance and	the Electrical Balance.
	(20 marks)
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1.6.	
1.6.1 Identify the combatant	
1.6.1. Identify the symbols A and B given below.	(06 marks)
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	And the property of the second
	His contract of the Contract o
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1.6.2. Name two substances/ chemicals that you can find in a laboratory with each of the symbols indicated above (1.6.1)

Symbol A	
	Symbol B
	······································
	·
1.7. Indicate one function for each of the following in	
and the following is	nstrument / laboratory item.
1.7.1. Desiccator	(05 marks)
1.7.2. Crucible	
1.7.3. Conical flask	
William Strain Strain Committee Comm	
	······
1.7.4. Fume cupboard	
1.7.5. Cuvette	
2. You have been appointed as the laboratory manager to	
in a Base Hospital. Basic investigations in Clinical Bioc	the Pathology laboratory
Microbiology are routinely performed in the above labor	hemistry, Haematology and
y parrothled in the above labor	ratory.
2.1. Name the three phases of the total testing process	
a)b)	(6 marks)
b)	
c)	

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2.2. List three common causes of errors in each of the phases mentioned in 2.1. (18 marks) a) b) c) 2.3. State two actions you should take in order to minimize the errors in the three phases mentioned in 2.1. (12 marks) a) c)

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(08 marks)
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(06 marks)
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ry?(10 marks)



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	Simple Company	
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	2.7.2. Write the essential components of an internal quality	y control (IQC)
	programme.	(08 marks)
		Aganto da Albaga,
	773 Nama take matter 1	
	2.7.3. Name two methods used for external quality assess	
	2.7.3. Name two methods used for external quality assess	ment (EQA). (04 marks)
	2.7.3. Name two methods used for external quality assess	
	2.7.3. Name two methods used for external quality assess	
	2.7.3. Name two methods used for external quality assess	
	2.7.3. Name two methods used for external quality assess 2.7.4. List five benefits of external quality assessment.	
		(04 marks)
		(04 marks)
		(04 marks)
Œ	2.7.4. List five benefits of external quality assessment.	(04 marks)
1/2	2.7.4. List five benefits of external quality assessment.	(04 marks)
	2.7.4. List five benefits of external quality assessment.	(04 marks)

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2.7.5. Describe how you would apply the principles of ethics when performing laboratory investigations.

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