FACULTY OF MEDICINE, UN	VIVERSITY OF RUHUNA
B.Sc. Medical Laboratory Sci	ence Degree Programme
Year End Examina	ation – Year 1

7th Batch – Medical Laboratory Practice (Theory)

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Wednesday 30th December 2015 Time: 8.30 am - 9.30am Duration: 1 hour

nswer both questions.	Index Number:
1. (1.1) Write two precautions that	have to be taken while handling a microscope.
	(05 marks)

(1.2) Write four precautions that should be taken while handling an an	alvical halance
in a laboratory.	(10 marks)
in a laboratory.	(10 murs)
(1.3) Write short notes on following	
(1.3.1) Deionized water	(15 marks)
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	(1.3.2) Double beam spectrophotometer	(15 marks)
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	(1.3.3) Analytical grade chemicals	
	(1.5.5) Allalylical grade chemicals	
	, and grade chemicals	(15 marks)
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(1.4) Draw the standard symbols to denote the following dangers in the spaces given below. (10 marks)

(a) Biohazard

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(b) Irritant

1.5) Give an account on the	safe usage of LP gas in a ge	eneral laboratory. (20 marks)
	•••••••	
(6)		
1.6) (1.6.1) What is meant by ca	alibration of an instrument?	(04 marks)
(1.0.1) What is mount of 0.		
(1.6.2) Name three labo	pratory instruments that	are needed to be calibrated
regularly.		(06 marks)
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 You have been appointed as the Scientist-In-Charge to a medical laboratory in a District Hospital. The Biochemical tests offered by this laboratory include plasma glucose, serum electrolytes and urine full report.

(2.1.1) Name five biochemical constituents checked in urine full report. (10 marks)
(2.1.2) Name the biochemical constituent/s which may be detected in urine in the
following disease conditions. (10 marks)
(2.1.2.1) uncontrolled diabetes mellitus
(2.1.2.2) Jaundice
·····
(2.1.2.3) Nephrotic syndrome
(2.2) Write the instructions you would provide in a Primary Sample Collection Manual
for collection of blood for commendated
(10 marks)

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monitor the precision of the plasma glucose assay in this laboratory.	(40 marks)
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(2.4) External Quality Assessment (EQA) is an important aspect of quality assurance.

(2.4.1) State two reasons for having an EQA programme in this laboratory. (05 marks)

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(2.4.2) Describe the instructions you would give regarding the handling of EQA samples for the plasma glucose and serum electrolytes tests in the above laboratory.

(10 marks)

(2.5) Medical Officer In-charge of the hospital requests you to prepare for getting accreditation for the Biochemical tests done in this laboratory by Sri Lanka Accreditation Board.

(2.5.1) What is the international standard applicable to accrediting medical laboratories? (05 marks)

(2.5.2) Name five "technical" requirements mentioned in the above international standard. (10 marks)

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