

FACULTY OF MEDICINE, UNIVERSITY OF RUHUNA
B.Sc. Medical Laboratory Science Degree Programme
Year End Examination – Year 1



7th Batch – Medical Laboratory Practice (Theory)

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

Answer both questions.

Index Number:.....

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1. (1.1) Write **two** precautions that have to be taken while handling a microscope.

(05 marks)

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(1.2) Write **four** precautions that should be taken while handling an analytical balance in a laboratory.

(10 marks)

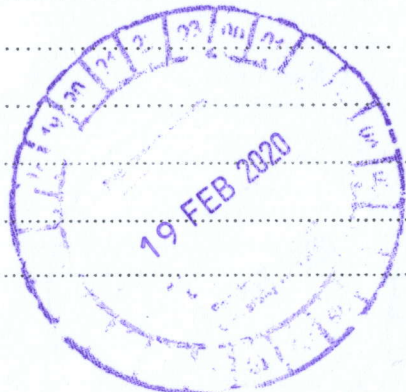
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(1.3) Write short notes on following

(1.3.1) Deionized water

(15 marks)

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2. 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)

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(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

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(2.1.2.2) Jaundice

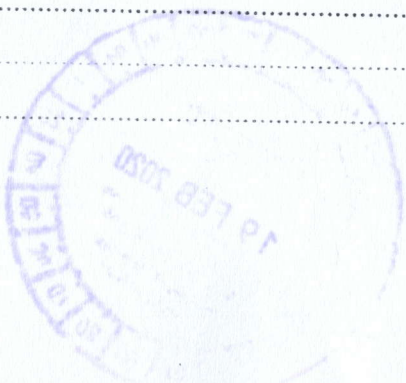
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(2.1.2.3) Nephrotic syndrome

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(2.2) Write the instructions you would provide in a Primary Sample Collection Manual for collection of blood for serum electrolytes. (10 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)

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(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)*

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

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