



FACULTY OF ALLIED HEALTH SCIENCES
UNIVERSITY OF RUHUNA
Department of Medical Laboratory Science
Year End Examination, Year 1 – 10th Batch - 2019



Medical Laboratory Practice (MLS 1104) – Theory (SEQ)

Wednesday 13th February 2019

Time: 8.30a.m. - 9.30a.m.

Duration: 1 hour

Answer both questions.

Index Number:

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1.

1.1. List **five** precautions that should be taken when collecting a blood sample for microbiological assessment. (20 marks)

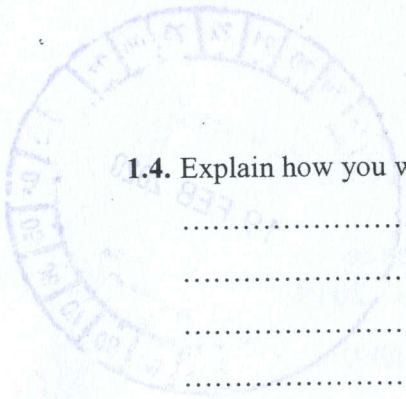
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1.2. State **two** advantages and **two** disadvantages of cytopathology assessments. (20 marks)

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1.3. Calculate the volume of the stock solution needed to prepare 250 mL of 1M HCl. The stock solution has a specific gravity of 1.189g/mL, 38% purity and 36.46 g/mol molecular weight. (15 marks)

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1.4. Explain how you would prepare the above solution at the laboratory.

(15 marks)

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1.5. Briefly explain how do you assure the safety of laboratory workers in a histopathology laboratory?

(30marks)

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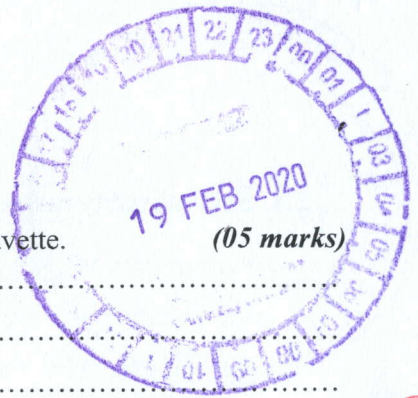
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2.

2.1. Write **two** precautions that have to be taken while handling a cuvette.

(05 marks)

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2.2. Write **four** precautions that should be taken while operating an analytical balance in a laboratory.

(10 marks)

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2.3. Write short notes on the following.

2.3.1. Calibration of the instruments.

(20 marks)

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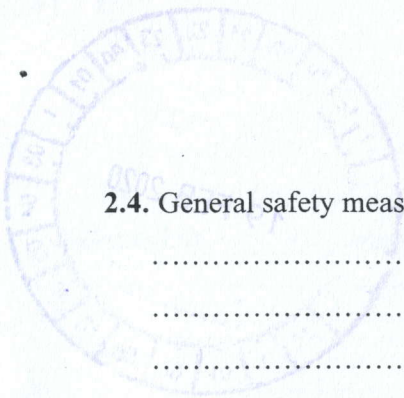
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2.4. General safety measures in a laboratory

(20 marks)

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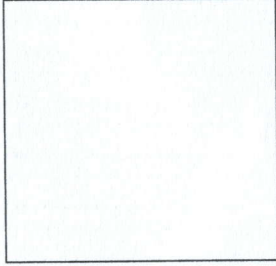
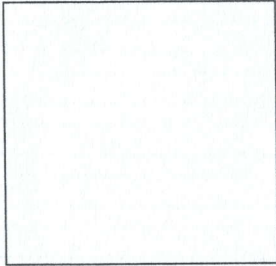
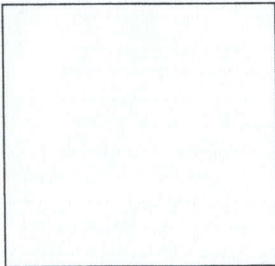
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2.5. Draw the standard symbols within the space provided below to denote the following. (15 marks)

(a) Irritant

(b) Radioactive

(c) Biohazards



2.6. What is the advantage of the double beam spectrophotometer over the single beam spectrophotometer? (10 marks)

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