



FACULTY OF ALLIED HEALTH SCIENCES, UNIVERSITY OF RUHUNA
Department of Medical Laboratory Science
Year End Examination, Year 3 - 2015/2016 (9th) Batch
MLS 3202 Animal Research – SEQ

Date: 05th April 2021

Time: 10.00 a.m. – 11.00 a.m.

Duration: 01 hour

Answer all questions

Index Number:

1.0

1.1 State **four** factors that should be considered in planning an animal research facility.
(16 Marks)

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1.2 Briefly describe the essential items required in a primary enclosure of Wistar rats.
(24 Marks)

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1.3 State the **three** areas of an animal house. (12 Marks)

1.4 State **four** points that you have to mention in the identification card of animals in a cage. (16 Marks)

1.5 State **one** practical application/use of each equipment listed below. (16 Marks)

Gavage tube : -----
Metabolic cage : -----
Restrain device : -----
CO₂ chamber : -----

1.6 Briefly describe how animals are transported from one place to another. (16 Marks)

2.0

2.1

2.1.1 Name **three** methods used in the identification of rodents in a cage? (15 Marks)

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2.1.2 Different methods are used in removing or transferring rodents from the cage during an experiment. List four examples. (20 Marks)

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2.1.3 What are the factors that determine the best route of administration of substances to a laboratory animal in an experiment? (15 Marks)

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2.1.4 Briefly explain why oral gavage is preferred over dissolving the substance in drinking water or food of the laboratory animal. (15 Marks)

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2.2

2.2.1 Name **five** factors that should be taken into account when formulating a diet for experimental animals? (20 Marks)

2.2.2 Name **five** potential biological and chemical contaminants of feeds that may have an impact on the outcome of the research. (15 Marks)
