

FACULTY OF ALLIED HEALTH SCIENCES, UNIVERSITY OF RUHUNA Department of Medical Laboratory Science Year End Examination – Year 3 - 8th Batch Animal Research (MLS 3202) – SEQ

Wednesday 6th November 2019

Time: 10.00 a.m. -11.00 a.m.

Duration: 1 hour

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Answer all questions

Index Number:....

1.

1.1

1.1.1 Briefly explain the "3R principle" related to ethics involved in animal research. (20 Marks)

1.1.2 State four ways that can be used to minimize the pain or distress in animals used in experiments. (16 Marks)

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1.1.4	Mention the end point which is recommended to be implemented in experiment giving reasons.	an (20 Marks)
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1.2 1.2.1	State the significance of using analgesics in animal experiments.	(8 Marks
1.2.2	State three factors to be considered in using analgesics.	(12 Mark:

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2.1 2.1.1	What is a mutation? (10 Marks
2.1.2	Laboratory animals with mutations are used in experiments. List three examples. (15 Marks
2.1.3	What are transgenic animals? (15 Marks
2.1.4	State one difference in the reproductive physiology between the human and the animals. (10 Marks
2.2 2.2.1	List five substances that could be included in the feed of an animal. (10 Marks

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2.2.3	Describe the precautions that could be taken to minimize the interference by variation in the composition of diet. (25 Mark

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