



FACULTY OF MEDICINE, UNIVERSITY OF RUHUNA
B.Sc. Medical Laboratory Science Degree Programme
Year End Examination Year 3-5th Batch

Animal Research- SEQ

Date: 30th August 2016

Time: 10.00-11.00am

Duration: 1 hour

Answer all questions.

Index Number:

1.

1.1 Write **three** ways by which microbial standardization can be carried out in an animal research facility. (Marks 15)

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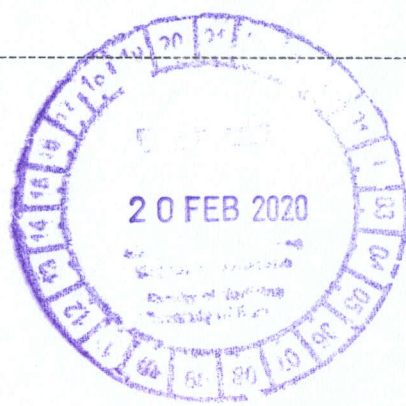
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1.2 Write **five** factors to be considered in the standardization of the environment of an animal research facility. (Marks 15)

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1.3 Write the names of **three** organizations that involve in protecting animal rights and their respective role. (Marks 15)

| Organization | Main role |
|--------------|-----------|
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1.4 List all the steps involved in administering a substance intraperitoneally to a mouse.

(Marks 25)

1.5 Briefly explain the term "transgenic mice".

(Marks 15)

1.6 List **five** ways by which a feed can affect the results of an experiment.

(Marks 15)



2.

2.1 State **four** characteristics of an ideal anaesthetic agent used in animal research.

(Marks 20)

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2.2 State why pre-anaesthetic preparations are important?

(Marks 10)

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2.3 State the importance of analgesics in animal research.

(Marks 10)

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2.4 Briefly explain the

2.4.1 ethical aspects involved in handling and restraining laboratory animals.

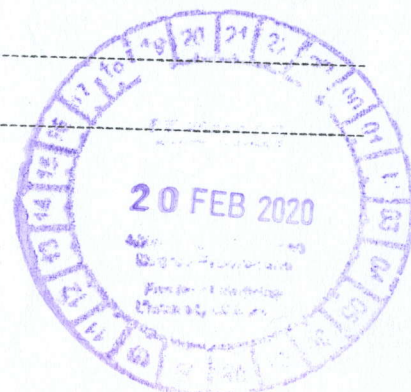
(Marks 20)

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2.4.2 parameters in the assessment of behavior of animals.

(Marks 20)

2.4.3 importance of maintaining proper animal research facility.

(Marks 20)

