

SECOND YEAR EXAMINATION FOR THE AWARD OF THE DEGREE OF BACHELOR OF SCIENCE IN MEDICAL LABORATORY

SCIENCE
SECOND SEMESTER 2017/2018
(MAY - AUGUST, 2017)

MELS 274: LABORATORY EXPERIMENTAL ANIMAL SCIENCE

STREAM: Y2S2

TIME: 3 HOURS

DAY: THURSDAY, 9:00-12:00 PM

DATE: 24/08/2017

INSTRUCTIONS

1. Do not write anything on this question Paper.

2. Answer ALL questions in Section A, question one is compulsory and any other question in Section B.

SECTION A: ANSWER ALL THE QUESTIONS [40 MARKS]

- Giving examples differentiate between a rat mouse and a guinea pig.
 [5 marks]
- 2. Explain how to maintain a germ free laboratory animal. [5 marks]
- 3. Give a detailed account of euthanasia. [5 marks]
- 4. Describe briefly the nomenclature used for laboratory mice. [5 marks]
- 5. Explain why it is important that laboratory animals are handled with care during experiments. [5 marks]
- 6. Explain how to prevent diseases in experimental laboratory animals. [5 marks]
- 7. Describe the diet of mice, guinea pig and rabbit.

[5 marks]

- 8. How do you prepare an experimental laboratory animal for intravenous drug administration? [8 marks]
- 9. Describe maceration as used in extraction. [4 marks]
- 10. What should you consider when you are doing a study on crude drugs.
 [4 marks]

SECTION B: ANSWER THE QUESTION ONE (COMPULSORY) AND ANY OTHER QUESTIONS [30 MARKS]

- 1. Describe the methods of drug administration for experimental animals [15 marks]
- 2. Discuss in detail available breeding systems for experimental animals [15 mar
- Discuss the signs of an healthy animal and give the symptoms of diseased animals. [15 mag