

# MERU UNIVERSITY OF SCIENCE AND TECHNOLOGY

P.O. Box 972-60200 - Meru-Kenya.

Tel: 020-2069349, 061-2309217. 064-30320 Cell phone: +254 712524293, +254

#### 789151411

#### Fax: 064-30321

Website: <u>www.must.ac.ke</u> Email: <u>info@must.ac.ke</u>

# University Examinations 2015/2016

# FIRST YEAR, FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE ANIMAL HEALTH AND PRODUCTION

#### AAP 3100: INTRODUCTION TO ANIMAL SCIENCE AND HEALTH

#### DATE: NOVEMBER 2015

TIME: 2 HOURS

**INSTRUCTIONS:** Answer question **one** and any other **two** questions

# **QUESTION ONE (30 MARKS)**

a) Describe the one health concept	(5 Marks)
b) Differentiate between the following:	(5 Marks)
i) Breed and Species	
ii) Fodder and forage	
iii) Oestrus and Oestrus cycle	
iv) Gross energy and net energy	
v) Carbohydrates and fats	
c) Outline the factors that affect the health of the animals	(5 Marks)
d) Nutrition is an important aspect in animal agriculture	
i) Outline the merits of animal nutrition	(5 Marks)
ii) Describe the deficiency symptoms of minerals	(4 Marks)
iii) Discuss the nature and role of water in supporting life	(6 Marks)

# **QUESTION TWO (20 MARKS)**

a) Discuss the role of livestock in the national economy (10 Marks)
 b) List the important features in the description of ranching system of livestock production (5 Marks)
 c) Discuss the effects of calcium deficiency in the diet of animals (5 Marks)
 **QUESTION THREE (20 MARKS)** 
 a) Define the term feed intake and discuss the factors that determine feed intake of ruminant animals (10 Marks)
 b) Discuss the strategies that can be put in place to mitigate the effects of climate charge on livestock (10 Marks)

# **QUESTION FOUR (20 MARKS)**

a) Define the term production system and discuss the important features of an animal production system. (10 Marks)
 b) Discuss using examples the importance of on-farm bio-security for control of the spread of disease (10 Marks)

Meru University of Science & Technology is ISO 9001:2008 Certified Foundation of Innovations