

JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY SCHOOL OF AGRICULTURAL AND FOOD SCIENCES UNIVERSITY EXAMINATION FOR DEGREE OF BACHELOR OF SCIENCE IN AGRIBUSINESS MANAGEMENT

THIRD YEAR SECOND SEMESTER 2013/2014 ACADEMIC YEAR

REGULAR

COURSE CODE: AAS 3321

COURSE TITLE: Ruminant and Non-Ruminant Production

EXAM VENUE:LR 7 STREAM: BSc (Agribusiness Management

DATE:11/12/14 EXAM SESSION: 9.00 – 11.00 AM

TIME: 2.00 HOURS

Instructions:

- 1. Answer ALL question in Section A (compulsory) and ANY other TWO questions in Section B.
- 2. Candidates are advised not to write on the question paper.
- 3. Candidates must hand in their answer booklets to the invigilator while in the examination room.

SECTION A [30 MARKS]

Answer ALL questions in this Section.

1. (a) List three(3) trace minerals and three (3) major minerals and state the effects of their deficiencies.	[6marks]
(b) How many stomachs do a Ruminant and non ruminant have?	[4marks]
2.(a) What are the most common vitamins needed for ruminants and for	
non-ruminants?	[2marks]
(b) Outline the feeding systems for pigs.	[3marks]
(c) List the reasons for soaking or wetting pig feeds before feeding.	[5marks]
3.(a) What type of feeds should be given to poultry from chicks to laying	
stage?	[3marks]
(b) Outline feed conservation methods which are encouraged for ruminant	:
production.	[3marks]
(c) Should a new born calf be fed as ruminant or non-ruminant? Why?	[4marks]

SECTION B [40 MARKS]

[20 marks]

Answer any TWO QUESTIONS in this Section.

4. Pigs and Equines are both non-ruminants but they require different types of feeds. Explain. [20 marks]

5. Animal behaviour is one of the factors that affects the design and complexity of the structure of an animal house. Discuss the statement, Give clear examples.

6. Discuss four steps of rumination. [20 marks]