



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE
AND TECHNOLOGY**
**UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR
OF SCIENCE IN AGRIBUSINESS MANAGEMENT**
THIRD YEAR SECOND SEMESTER 2016/2017 ACADEMIC YEAR
CENTRE: MAIN CAMPUS

COURSE CODE: AAS 3321

**COURSE TITLE: RUMINANT AND NON RUMINANT
PRODUCTION**

EXAM VENUE:

STREAM:

DATE:

EXAM SESSION:

TIME:

Instructions:

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

SECTION A (30 Marks)

1. a. Give two demerit of the Jersey breed of cattle (**2 marks**)
b. Briefly explain the following management operation in cattle production:
 - i. Castration (**2 Marks**)
 - ii. Identification (**2 Marks**)
 - iii. De-worming (**1 Mark**)
- c. Outline type of feeds which should be given to poultry from chicks to laying stage (**3 marks**)
2. a. Alternative feeding help reduce pig costs; some fodder crops can replace half a ration of compound feeds. List **six (6)** fodder crops. (**3 marks**)
b. Briefly explain any five factors affecting growth and development in farm animals (**5 marks**)
c. What are some of the practices that should be done with a piglet within the first couple of days? (**2 marks**)
3. a. Define flushing in relation to sheep production and explain its importance. (**3 marks**)
b. Briefly discuss main vitamins including effects of their deficiencies to livestock (**4 marks**)
c. Highlight three constrains to beef production. (**3 Marks**)

SECTION B (40 Marks)

4. a. Dairy cows are to be fed according to production and stage of lactation.
Discuss. **(10 marks)**
- b. Dairy goats have become popular both for their size to fit in small holder system and also the value of milk. Discuss practical steps towards starting dairy goat production (**10 Marks**)
5. You have been asked to advice on the profitability of raising 250 layers/broilers.
- a. Workout simple gross margin based on feed cost, sale of eggs and live birds to enable you advice on the most profitable venture. (**15 Marks**)
- b. Highlight 5 other critical costs you need to advice on successful poultry venture. (**5 Marks**)

Assume;

- i. Mortality of 10%
- ii. Broilers sold at 8 weeks old (all in, all out basis)
- iii. Layers kept for 78 weeks and started laying at 20 weeks
- iv. Broilers sold at 350/- per kg
- v. Eggs sold at 300/- per tray
- vi. Price of feeds ; broiler starter @40/- /kg, broiler finisher @ 35/- kg, Chick and duck mash @40/ kg-, growers mash @ 40/- kg , layers mash @40/- per kg
- vii. Laying % = 80%
- viii. Price of culled birds = 400/- per bird
6. a. Assume you have been hired as an extension officer by county government to advance dairy cattle breeding. Explain traits you will advise the farmers to consider when selecting breeding stock..(**15 Marks**)
- b. Discuss causes of piglet crushing as the main cause of pre weaning mortality in pigs (**5 marks**)