



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
SCHOOL OF AGRICULTURAL AND FOOD SCIENCES
FOURTH YEAR –SEMESTER UNIVERSITY EXAMINATION FOR
THE DEGREE OF SCIENCE IN ANIMAL SCIENCE
2017/18 ACADEMIC YEAR
REGULAR**

COURSE CODE:AAS 3411

COURSE TITLE: DAIRY CATTLE PRODUCTION

EXAM VENUE: LR 10

STREAM: ANIMAL SCIENCE

DATE: 21/12/17

EXAM SESSION: 9.00 – 11.00 AM

TIME:2 HOURS

INSTRUCTIONS

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

SECTION A (30MKS)

Answer ALL questions from this Section

1. Explain four effects of dairy farming to Kenya's economy (4mks)
2. Give four major characteristics that favor highland commercial dairy farming in Kenya (4mks)
3. Dairy industry in Kenya is one of the agricultural sectors that contribute a lot to the Gross Domestic Products. (GDP)
 - i. Explain any four challenges affecting the expansion of the same in Kenya (4MKS)
 - ii. What measures should the Government of Kenya undertake to overcome the above challenges. (4MKS)
4. Explain the two types of ration in dairy production (2mks)
5. State four factors to consider when formulating a ration for an in-calf (4mks)
6. Give three advantages of using AI over the natural mating system (4mks)
7. Give four structural requirements that should be considered when constructing a calf pen (4mks)

SECTION B (40MKS)

Answer ANY TWO questions from this Section

8. Describe the characteristics of the following exotic dairy cows in relation to:- amount of butter fat; origin; colour; maturity weight; and amount of milk per lactation
 - i. Friesian (5mks)
 - ii. Ayrshire (5Mks)
9. Describe the production of a calf from weaning to parturition (20mks)
10. Milk is the major product of dairy farming. Discuss
 - i. The essentials of clean milk production (10mks)
 - ii. Any five factors that affect the composition and quantity of milk in dairy farming (5mks)
 - iii. Measures to undertake to enhance maximum milk letdown (5mks)