



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

SCHOOL OF AGRICULTURAL AND FOOD SCIENCES

**UNIVERSITY EXAMINATION FOR DEGREE OF BACHELOR OF SCIENCE
ANIMAL SCIENCE**

FOURTH YEAR SEMESTER ONE 2017/2018 ACADEMIC YEAR

REGULAR

COURSE CODE: AAS 3412

COURSE TITLE: POULTRY PRODUCTION

EXAM VENUE: LR 8

STREAM: BSc. (Animal Science)

DATE: 19/12/17

EXAM SESSION: 9.00 – 11.00 am

TIME: 2 HOURS

Instructions

- 1. Answer ALL questions in Section A (compulsory) and ANY 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**
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SECTION A: 30 MARKS

Answer ALL questions in Section A

1. Briefly discuss the following
 - a) Brooder set up (5 marks)
 - b) Causes of vices in chicken flocks and control/prevention measures (7 marks)
 - c) Value addition for poultry products at farm level (2 marks)
2. State the feeding standards for protein and energy of broiler chicks and layers rations (4 marks)
3. Using a well labelled diagram, explain egg formation in chicken (8 marks)
4. Comment on the utilisation of the following feeds in formulation of poultry rations
 - a) Cotton seed cake (2 marks)
 - b) Fish meal (2 marks)

SECTION B: 40 MARKS

Answer ANY TWO questions in Section B

5.
 - a) Describe the methods used in commercial sexing of day old chicks (8 marks)
 - b) Describe embryo development from egg to chick and critical stages when embryo mortality occurs and its causes (12 marks)
6. A potential poultry farmer has approached you to advice on the profitability of a 500 broiler bird enterprise
 - a) Workout a simple gross margin based on chick and feed cost, and of live birds to enable you advice the farmer on profitability of the venture (15 marks)
 - b) Highlight five other critical costs you need to advise him on for a successful poultry venture (5 mark)

Assume the following: Nil mortality; cost of chick 100; broilers sold at 6 weeks (“all in-all out basis”); price of broilers 450/= per piece; price of feed (Ksh/kg) broiler starter 50/= and broiler finisher 45/=;
7. You have been invited to address Rongai Self Help Group farmers who are keen on reducing losses and mortalities in their layers income generating project.
 - a) Prepare for them a vaccination schedule from day old chicks to point of lay showing routes of administration (10 marks)
 - b) Highlight five common poultry diseases citing their causative agent, two key symptoms, prevention and control measures at the farm (10 marks)