



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2019/2020

SECOND SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF
SCIENCE (ANIMAL HEALTH AND PRODUCTION)

KAS 309:POULTRY PRODUCTION

DATE: Monday, 23rd November 2020

TIME: 11.00a.m-1.00p.m

INSTRUCTIONS:

Answer ALL questions in this section(40 marks)

1. Explain briefly the factors to consider on whether to force-moult a layer flock after one year of laying. (5marks)
2. (a) Specify the two critical periods during egg incubation when significant losses may occur. (1mark)
(b) For each period, indicate the likely mortality rate and give reasons (4 marks)
3. List the body features that indicate a non-laying hen in a layer chicken flock (5 marks)
4. Describe the methods used in grading of eggs by weight (5 marks)
5. Explain briefly the physiological significance in maintaining constant lighting hours for layers through the laying period. (5 marks)
6. State five desirable traits considered in breeding of broiler chicken (5 marks)
7. Giving reasons, distinguish between the types of commercial poultry breeds currently kept from those kept several decades ago. (5 marks)
8. Describe briefly different methods of sexing day old commercial chicks (5 marks)

SECTION B

Answer any two question from this section

9. (a) Name the types of feeds given to commercial layer chicken from day- old to the laying phase. (3 marks)
- (b) State the nutrient composition of each type of feed named in 9(a) above and explain how it relates to the respective physiological requirements of the birds. (12marks)
10. Discuss the effects of high ambient temperatures ($>26^{\circ}\text{C}$) in the layer house under the following :
- (i) Chicken behaviour (7 marks)
- (ii) Productivity (8 marks)
11. (a) Explain the term 'energy to protein ratio' in broiler chicken diets. (5 marks)
- (b) discuss the application of the concept in (a) above in the feeding regime and performance of broiler (10marks)