



MURANG'A UNIVERSITY COLLEGE

(A constituent college of Jomo Kenyatta University of Agriculture and Technology)

DIPLOMA FOOD SCIENCE AND TECHNOLOGY

Y1S2 2015/2016

DFST 1123: ANIMAL PRODUCTION

DATE: 18th April 2016

TIME 2HRS

EXAM

Attempt question *ONE* and any other *TWO*

QUESTION ONE

- i). State two bacterial and two viral diseases common in poultry **(2 marks)**
- ii). Discuss the important factors to consider when sourcing day-old chicks for layers production **(6 marks)**
- iii). State three methods used to formulate ration mixes. **(3 marks)**
- iv). State and explain six main challenges facing animal production in Kenya. **(6 marks)**
- v). List two pure dairy cattle breeds common in Kenya highlands, one exotic pure beef breed and two dual purpose breeds common in arid areas in Kenya. **(5 marks)**
- vi). Discuss the process of preparing tube silage **(8 marks)**

QUESTION TWO

- i). State five common signs of sickness in animals **(5 marks)**
- ii). Discuss three main nutrients required by animals stating the common sources and importance of each to the animal **(9 marks)**
- iii). State six heat signs in goats. **(6 marks)**

QUESTION THREE

- i). State and explain five important considerations for selecting good breeding gilts. **(5 marks)**

- ii). Discuss parasitic health problems and their management in rabbit keeping. **(6 marks)**
- iii). Using Pearson square method clearly show how you would formulate a 50 kg mixed ration containing 18% crude protein (CP) from cotton cake with 44% CP and maize straws with 10% CP. **(6 marks)**
- iv). State three important uses of molasses in animal production. **(3 marks)**

QUESTION FOUR

- i). Explain five characteristics of extensive system of livestock production **(5 marks)**
- ii). Briefly discuss a feeding programme you would recommend to a farmer gearing to rear one-day old chicks layers until culling in 18 months. **(5 marks)**
- iii). Discuss the recommended conditions of a pig house settings. **(5 marks)**
- iv). Explain clearly how environmental conditions affect animal production indirectly **(5 marks)**