

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

THIRD YEAR EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF AGRICULTURE EDUCATION

AGEC 344: FARM MANAGEMENT (APPLICATION)

STREAMS: AGECE Y3S2

TIME: 2 HOURS

DAY/DATE: THURSDAY 12/04/2018

11.30 A.M. – 1.30 P.M.

INSTRUCTIONS:

- **QUESTION ONE IS COMPULSORY AND THEN SELECT ANY OTHER THREE.**

QUESTION ONE (25 MARKS)

- Kenya's population is growing by approximately one Million people per year. Combined with stagnant agricultural productivity and limited arable land, this demographic growth poses critical challenges to food security. Discuss. (6 marks)
- Discuss the USE OF linear programming model in agriculture. (4 marks)
- Fluctuations in climatic conditions and in world prices of agricultural commodities strongly affect export earnings for developing countries like Kenya. Explain how a country can overcome this. (8 marks)
- Explain the Kenyan Tea sector value chain and discuss the challenges facing the sector. (7 marks)

QUESTION TWO

- (i) Giving various reasons explain the tread as shown by the diagram. (5 marks)
- (ii) Give your recommendations. (5 marks)
- (iii) Explain the challenges facing ‘macadamia’ nut production in Kenya. (5 marks)

QUESTION THREE

- (i) Farming is by far the largest economic enterprise in Africa, and it is vital for the well-being of most people and therefore most farms in a particular area usually have many common features. Discuss. (8 marks)
- (ii) Explain the importance of data in farm management. (7 marks)

QUESTION FOUR

- (i) Planning for the Development of a country cannot be adequately done without appropriate data. Explain this statement. (8 marks)
- (ii) Explain the use of the following information in the farm. (3 marks)
 - (a) Land Tenure
 - (b) Cropping Pattern (2 marks)
 - (c) Conversion Ratios (2 marks)

QUESTION FIVE

- (i) Kenyans are amongst the highest milk consumers in the developing world, consuming an estimated 145 litres per person per year, more than five times milk consumption in other East. Explain how as a government, you will put measures to ensure sustained production and marketing of milk in Kenya. (10 marks)
- (ii) Explain the major characteristics of farm systems. (5 marks)
-