



MACHAKOS UNIVERSITY

University Examinations for 2018/2019 Academic Year

SCHOOL OF AGRICULTURAL SCIENCES

DEPARTMENT OF AGRIBUSINESS MANAGEMENT

FIRST YEAR FIRST SEMESTER EXAMINATION FOR
MASTER OF SCIENCE IN AGRIBUSINESS MANAGEMENT

AGB 807: SUSTAINABLE FOOD SYTEMS

DATE: 26/6/2019

TIME:10:00 – 1:00 PM

INSTRUCTION TO CANDIDATES:

Answer Question One and Any Other Two Questions

QUESTION ONE (COMPULSORY) (20 MARKS)

- a) Explain five roles played by urban and peri urban farming towards agricultural sustainability in Kenya. (5 marks)
- b) Explain five roles played by Agroforestry farming systems. (5 marks)
- c) Climate change has been witnessed currently in many countries. Discuss five impacts of climate change in agricultural production. (5 marks)
- d) Post-harvest losses have been identified as one major cause of food insecurity in Kenya. Explain five measures the government has taken to ensure minimal food losses are incurred. (5 marks)

QUESTION TWO (20MARKS)

- a) With specific examples discuss the role of agricultural innovations in Kenya. (10 marks)
- b) Explain five opportunities to farmers that can lead to increased adoption of aquaculture in an integrated crop-livestock system. (5 marks)
- c) Due to climate change effects currently experience in Kenya, farmers have opted to utilization of non-conventional water. Explain five challenges farmers face in utilization of such water. (5 marks)

QUESTION THREE (20 MARKS)

- a) Women, children and elderly are highly vulnerable to food insecurity. Explain strategies the government employ to ensure sustainable food security to its women, children and the elderly. (10 marks)
- b) Discuss the role of climate smart agricultural in Kenya. (10 marks)

QUESTION FOUR (20 MARKS)

- a) Water is a scarce resource. Explain four measures farmers can adopt to improve water use efficiency under irrigation management (8 marks)
- b) With specific examples, explain six practices farmers can adopt in management of pest and diseases in an effort to ensure food security in Kenya. (12 marks)

QUESTION FIVE (20 MARKS)

- a) Critically discuss conservation agriculture in Kenya (10 marks)
- b) Large scale farmers in Kenya are sceptical about adopting integrated soil fertility management (ISFM) unlike subsistence farmers. Explain five reasons why this is the case (5 marks)
- c) Explain how crop-livestock system can be successfully managed in Kenya. (5 marks)