



Strathmore
UNIVERSITY

STRATHMORE BUSINESS SCHOOL
MASTER OF MANAGEMENT IN AGRIBUSINESS
END OF SEMESTER EXAMINATION

MMA 8110: AGRO-INDUSTRY VALUE CHAIN & POST HARVEST MANAGEMENT

Date: Friday, 27th August 2021

Time: 3 Hours

Instructions

1. This examination consists of **FIVE** questions.
2. Answer **QUESTION ONE** and **ANY OTHER THREE** questions.

Question 1 (Compulsory Question) (20 marks)

Case: Big Data: Can it Rejig the Global Food Chain?

Read the case provided and attempt the following questions

- a) Explain the dynamics (both upstream and downstream) of global food supply chains **(6 marks)**
- b) What are the issues and challenges plaguing the global food supply chain? **(10 Marks)**
- c) Explain the concept of big data and how it be leveraged in global food supply chain **(4 marks)**

Question 2: (10 Marks)

The food system includes not only the basic elements of how we get our food from farm to fork, but also all of the processes and infrastructure involved in feeding a population.

Please explain how the move from a linear to a circular economy can help improve the food system and the increase availability of food in the planet **(10 Marks)**

Question 3: (10 Marks)

Processing is considered the most known value adding activity in commodity trade. However other market actors add other types of value based on the form of the commodity, the place and time of availability the commodity.

Briefly explain the **drivers of value** and their importance in commodity trade **(10 Marks)**

Question 4: (10 Marks)

A nation's economy contains a mix of clusters of industries connected through vertical and horizontal relationships (Porter, 1990). Explain this statement, making reference to what you have learnt in class **(10Marks)**

Question 5 (10 Marks)

In highly food-insecure regions such as Sub-Saharan Africa, approximately 20% of all grains, 44% of roots and tubers, and up to 52% of fruits and vegetables are lost between harvest and consumption.

- a) Why is it that there is so much losses in food produced in Sub- Sahara Africa? **(4 marks)**
- b) Taking a particular **food or horticultural crop** as an example, give your recommendation on how the losses can be reduced along the value and supply chains. **(6 marks)**