

# STRATHMORE BUSINESS SCHOOL

MASTER OF MANAGEMENT IN AGRIBUSINESS

#### **END OF SEMESTER EXAMINATION**

MMA 8107: ECONOMICS OF AGRIBUSINESS

**Date:** Thursday 2<sup>nd</sup> December 2021 Time: 3 Hours

## **Instructions**

- This examination contains **FOUR** questions
- Attempt Question One and any two other questions

## Question 1 (Compulsory) (30 Marks)

- a) Explain economic welfare concepts and discuss the welfare implications of a tariff
  - (15 Marks)
- b) Explain, giving examples, what the agribusiness can do to bring economic development. (15 Marks)

#### Question 2 (15 marks)

Discuss the typical solutions of the farm problems by the government interventions in agriculture.

## Question 3 (15 Marks)

You are provided the following production data for maize and the amount of irrigation water used in the production.

		Marginal
Irrigation	Maize yield	input
water	per acre	cost
(acre-		
inch)	(25kg bag)	(MIC)
10	104.0	
12	116.8	3.00
14	128.6	3.00
16	138.2	3.00
18	144.8	3.00
20	149.0	3.00
22	151.8	3.00
24	153.6	3.00
26	154.2	3.00

Given prices for irrigation water at \$3.00/acre-inch and the price of 25kg bag of maize is \$2.50.

- a) Derive the marginal physical product of this farm (5 marks)
- b) Determining the Profit-Maximizing Irrigation Level for maize Production (5 Marks)
- c) Determine the amount of maize that maximize profit and the optimal profit (5 Marks)

## **Question 4 (15 Marks)**

Discuss the four key interrelated structural characteristics used when discussing competitive behavior of a market