

JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY SCHOOL OF AGRICULTURAL AND FOOD SCENCES

FIRST SEMESTER FIRST YEAR EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN AGRIBUSINESS MANAGEMENT 2020/2021 ACADEMIC YEAR

COURSE CODE: APB 9101

COURSE TITLE: Introduction To Agriculture

EXAM VENUE: STREAM: (BSc. Agribusiness Management)

DATE: EXAM SESSION:

TIME: 2HOURS

Instructions:

- 1. Answer ALL questions in Section A (compulsory) and ANY TWO questions in Section B
- 2. Candidates are advised not to write on the question paper
- 3. Candidates must hand in their answer booklets to the invigilator while in the examination room

SECTION A [30 MARKS]

Answer ALL questions from this section

- 1. (a) Explain the meaning of the following terms: [3 Marks]
 - I. Agriculture
 - II. Biotechnology
 - III. Climate change
 - (b) Highlight the role played by agriculture as an industry in Kenya's economy.[7 Marks]
- 2. (a) How does climate and soil influence agriculture?

[4 Marks]

- (b) Formulate a crop rotation program with FOUR crops of your choice explaining the choice and sequence of each crop [6 Marks]
- 3. (a) Suggest ways you would use to minimize post-harvest losses in horticultural crops within your farm.[5 Marks]
 - (b) What methods would you use to prevent soil fertility losses from small scale farms? [5Marks]

SECTION B [40 MARKS] Answer any TWO QUESTIONS in this Section.

- 4. Suppose you are an agricultural extension officer working in a community that has been experiencing severe pest infestation on crops for years. Design an Integrated Pest Management (IPM) strategy you would use to reduce the pest menace on farmers' fields
 [20 Marks]
- 5. Describe the main cropping systems practiced in Kenya clearly stating their advantages and disadvantages. [20 Marks]
- 6. (a) Explain why you would recommend a Fresian dairy animal to a livestock farmer instead of his local breed in Kenya. [5 Marks]
 - (b) Outline the role played by biotechnology in agricultural productivity. [15 marks]