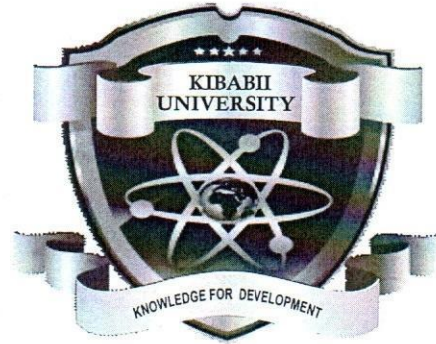*(Knowledge for Development)*

KIBABII UNIVERSITY

UNIVERSITY EXAMINATIONS 2021/2022 ACADEMIC YEAR

THIRD YEAR 2ND SEMESTER MAIN EXAMINATION

FOR THE DEGREE OF BACHELOR OF SCIENCE IN AGRICULTURE EDUCATION AND EXTENSION

COURSE CODE: AEX 323
COURSE TITLE: AGRICULTURAL INFORMATION, MANAGEMENT AND EXTENSION

DATE: 31ST AUGUST 2022   **TIME: 9 – 11 AM**

INSTRUCTIONS TO CANDIDATES

Answer Question ONE and any other TWO Questions.

TIME: 2 Hours

This paper consists of 3 printed pages. Please Turn Over ▶

QUESTION ONE

(a) Define the following terms (6marks)

     (i)   Innovation

     (ii)   Systems Knowledge

     (iii)   Agricultural communication

(b) Justify Agriculture as a driver for economic transformation in Africa (4marks)

(C) Agricultural investment in developed and developing countries has proved as an efficient means to reduce hunger and in the long run address food and nutrition security. Discuss five (5) drivers of investment in agriculture (10 Marks)

(d) Discuss two (2) types of agricultural systems, giving advantages and disadvantages of each system (10 marks)

QUESTION TWO

(a) Discuss five ICT challenges in Agriculture and Rural Development (10 marks)

(b) Explain five roles of ICT in agricultural development (10 marks)

QUESTION THREE

(a) Distinguish between Innovation system and National Innovation system (4 Marks)

(b) Discuss Diffusion process of Innovation theory (16 marks)

QUESTION FOUR

(a) As an Agricultural expert, you are faced with a problem affecting farmers crop yield, using the systems approach, Discuss the steps you will follow in solving the problem (12marks)

(b) Briefly discuss the functional elements of extension administration (8marks)

QUESTION FIVE

(a) By giving examples from agriculture, Discuss the concept of Data, Information and Knowledge in Agricultural context (9 marks)

(b) Briefly discuss how Social Media contributes to Agricultural development (6 marks)

(c) List five disruptive information and communication technologies applied in agriculture sector (5 marks)