(Knowledge for Development)

KIBABII UNIVERSITY

UNIVERSITY EXAMINATIONS 2022/2023 ACADEMIC YEAR

THIRD YEAR 2ND SEMESTER MAIN EXAMINATION

FOR THE DEGREE OF BACHELOR OF SCIENCE AGRICULTURE EDUCATION AND EXTENSION

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

DATE: 18TH APRIL 2023   **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)   Disruptive innovation

(b) Highlight the dimensions of Innovation (4marks)

(C) Discuss Five Ethical issues in relation to Agricultural Information systems (10marks)

(d) Promoting investments in Agriculture for increased production and productivity in developed and developing countries has proved to be 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)

QUESTION TWO

(a) You are an agricultural expert responsible for disseminating useful agricultural information to farmers in your ward. Discuss five ICT related challenges you are likely to face. (10 marks)

(b) Discuss the impact of ICT in agricultural development (10 marks)

QUESTION THREE

(a) Discuss Diffusion of Innovation theory (15 marks)

(b) Highlight four criticisms for the Diffusion of Innovation Theory (5 Marks)

QUESTION FOUR

(a) Briefly show how Social Media contributes to Agricultural development (8 marks)

(b) As an Agricultural extension 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)

QUESTION FIVE

(a) Briefly explain five disruptive innovations and communication technologies applied in agricultural sector (10 marks)

(b) Giving examples, Discuss the concept of Data, Information, Knowledge and Wisdom in Agricultural context (10 marks)