MACHAKOS UNIVERSITY

University Examinations for 2018/2019 Academic Year

SCHOOL OF AGRICULTURAL SCIENCES

DEPARTMENT OF AGRIBUSINESS MANAGEMENT AND TRADE

THIRD YEAR SPECIAL/SUPPLEMENTARY EXAMINATION FOR

BACHELOR OF SCIENCE IN AGRICULTURAL EDUCATON AND EXTENSION

AGR 301: RESEARCH METHODS IN AGRICULTURAL EDUCATION AND EXTENSION

DATE: 26/7/2019   **TIME: 11.00-1.00 PM**

INSTRUCTIONS;

ALL questions from Section A and any other *THREE* from Section B

SECTION A: COMPULSORY (40 MARKS)

QUESTION ONE

a)   Define the term research   (1 marks)

b)   Distinguish between the following terms used in research

      i) Inferential statistics and descriptive statistics   (2 marks)

      ii) Concept and theory   (2 marks)

      iii) Dependent and classification variables   (2 marks)

c)   Explain four dimensions useful in classification of research methods   (4 marks)

d)   Explain four goals of explanatory research   (4 marks)

e)   i) Explain any five disadvantages of focus group discussion over personal interviews

                                                                                                          (5 marks)

ii) Explain five factors that affect internal validity in research   (5 marks)

f)   Explain four types of literature reviews that you may choose as a researcher in your field

      of specialization   (4 marks)

SECTION B: ANSWER ANY THREE QUESTIONS (60 MARKS)

QUESTION TWO

a) You have been tasked with preparing a review on 'Role of Genetically Modified Organisms (GMOs) in solving food security in Africa'. Describe the steps you would follow in preparation a literature review in the subject area   (16 marks)

b) As a scientist in the field of agricultural education and extension, explain four reasons why you will not rely on secondary data alone in your research   (4 marks)

QUESTION THREE

a) As a research scientist in your field of specialization, explain five factors you will considered in choice of best data collection tools   (10 marks)

b) When undertaking research, explain five research ethics you must adhere to when carrying out research in agriculture   (10 marks)

QUESTION FOUR

a) Explain six characteristics of good scientific methods in research   (12 marks)

b) Explain four elements you would include in summarizing your proposal   (8 marks)

QUESTIONFIVE

You have been appointed by your employer to head in developing a proposal and its implementation.

a) Explain five ways of framing good quality objectives   (10 Marks)

b) Explain the areas to include when presenting your report   (10marks)