



MACHAKOS UNIVERSITY

University Examinations for 2019/2020 Academic Year

SCHOOL OF AGRICULTURAL SCIENCES

DEPARTMENT OF AGRIBUSINESS MANAGEMENT AND TRADE

FOURTH YEAR SPECIAL/ SUPPLEMENTARY EXAMINATION FOR

BACHELOR OF SCIENCE IN AGRICULTURAL EDUCATION AND EXTENSION

AGR/KCU301: RESEARCH METHODS IN AGRICULTURAL EDUCATION AND
EXTENSION

DATE: 20/01/2021

TIME: 2.00-4.00 PM

INSTRUCTIONS:

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

SECTION A: COMPULSORY (40 MARKS)

QUESTION ONE

- a) Distinguish between descriptive and inferential statistics (2 marks)
- b) Explain four goals of exploratory research (4 marks)
- c) Explain three roles of facts in research (3 marks)
- d) Explain four important types of variables in agricultural and extension research (4 marks)
- e)
 - i) Explain any five disadvantages of personal interviewing over email (5 marks)
 - ii) Explain five factors that affect internal validity in research (5 marks)
- f) Distinguish between theory and concept (4 marks)
- g) Explain the purpose of sampling a sample size rather than a population (5 marks)
- h) Explain four types of literature review in research (4 marks)
- i) Explain four dimensions useful in classification of research methods (4 marks)

SECTION B: ANSWER ANY THREE QUESTIONS (60 MARKS)

QUESTION TWO

- a) Describe the steps you would follow in preparation and execution of the survey in data (16 marks)
- b) Explain four reasons why literature review is important in research studies (4 marks)

QUESTION THREE

- a) Explain the sections to be included in a proposal writing (10 marks)
- b) Explain five research ethics one must adhere to when carrying out research in agricultural education and extension (10 marks)

QUESTION FOUR

- a) Explain three methods of research designs that can be used to accomplish a research study (12 marks)
- b) Explain four elements you would include in summarizing the report for this research (8 marks)

QUESTION FIVE

- a) Assuming you have been given an assignment to organize and collect data on adoption of irrigation by farmers in South Eastern Region of Kenya. Explain five factors to be considered in choice best instruments for the exercise (10 marks)
- b) Explain five ways of framing good quality objectives that provide detailed strategy for accomplishing a research goal (10 marks)