

**AGED 841: RESEARCH METHODS IN AGRICULTURAL EDUCATION
RESIT/SPECIAL EXAM**

Stream: Masters in AGED /AGEX (Y1S1)

Time: 3hours

Instruction

- Answer question one (Compulsory) and any other TWO questions
- Do not write on the paper

1a) Fill in the blank spaces (6 marks)

- a) refers to assumptions about the nature of reality.
- b)concerns assumptions about knowledge, what constitutes acceptable, valid and legitimate knowledge, and how we can communicate knowledge to others
- c) asserts that all truth can be verified and proven scientifically and can be measured and or observed.
- d)asserts that there is no absolute truth but relative truth based on context
- e)element or characteristic being studied
- f)inclusive group defined by researcher

b) Match the research types with the descriptors (4 marks)

Research type	Descriptor (meaning)
Descriptive	describes what was-mostly nonobtrusive
Historical	Describes what is mostly non-obtrusive
Experimental research	Makes comparisons looking for trends and or tendencies
Correlational research	Describes what will be mostly obtrusive

c) Assume that you are a researcher wanting to engage in a project to find out the why masters' students in AGED/AGEX at Chuka university are taking so long to complete the programs.

- a) Design a research topic to address the problem (2 marks)
- b) Formulate two objectives and two research questions that would guide you in the research (8 marks)

2a) Sketch five differences between quantitative and qualitative research approaches (10 marks)

c) Discuss the role of research in agricultural and extension education (10 marks)

3a) Describe the three basic experiment designs (6 marks)

d) Discuss any seven threats to internal validity in experimental research (14 marks)

4a) List five advantages of observation as a method of data collection (5 marks)

b) Discuss four types of research based upon the purpose (15 marks)

5a) Assume that you are about to pilot test your research instrument, what key validity types would you go for to ensure that its adequate for data collection and why? (10 marks)

b) *There is no significant difference in mean weight between male and female MSc AGED students 2019 class at Chuka University.* Explain the five main steps that would be followed when testing the aforementioned hypothesis (10 marks).

