

MERU UNIVERSITY OF SCIENCE AND TECHNOLOGY

UNIVERSITY EXAMINATIONS

FIRST YEAR EXAMINATION FOR

THE DEGREE OF DOCTOR OF PHILOSOPHY

EMM 8100:ADVANCED RESEARCH METHODS IN EDUCATION

STREAM :PhD (EDUCATION)

TIME :3 HRS

Instructions

Answer question one (compulsory) and Three other questions

QUESTION ONE

One of the counties in Kenya has a staff complement of five hundred (500) secondary school teachers who are spread across one National school , three extra county schools and ten county schools .It is alleged that teachers in the said schools are less motivated which is a barriers to students learning gains .What is not clear , however is whether or not the low level of teacher motivation is affecting all schools and teachers irrespective of their gender , age and teaching experience .You have been contracted by the county government to carry out a study with a view to addressing the gaps identified herein .

- a. State your problem statement. (4mks)
- b. Generate four objectives that will guide the study . (4mks)
- c. Develop four null hypotheses which you will test so as to achieve the objectives of your study . (4mks)
- d. Explain how you will sample teachers who will participate in your study. (4mks)
- e. State two extraneous variables that have the potential to confound your findings. (4mks)
- f. State two inferential statistics you will use to these study's hypotheses. (4mks)

QUESTION TWO

- a. Distinguish between the terms research design and research method . (2mks)
- b. What three points can you present in a discussion entitled “general characteristics of Education Research .” (6mks)
- c. Explain your justifications for developing a good methodological framework in a research entitled “The influence of school managerial practices on teacher outcomes .” (4mks)

QUESTION THREE

- a. Explain three purposes of problem statement in education research . (3mks)
- b. Advance three justifications why a researcher should embark on a detailed literature review prior to embarking on a research project . (6mks)
- c. As a post graduate student , explain three ways which you will use to share the findings that will accrue from your research project . (3mks)

QUESTION FOUR

- a. Distinguish between the terms validity and reliability of a research instrument . (2mks)
- b. Using one example in each case , distinguish between directional and non – directional hypothesis in the context of educational research . (4mks)
- c. You intend to carry out a study relating to challenges on transition of grade six pupils to junior secondary schools in Kenya .Explain six steps you would follow to realize your objectives . (6mks)

QUESTION FIVE

- a. Distinguish between the terms theoretical and empirical literature . (2mks)
- b. Explain four sampling techniques you can apply when conducting a study on “Behavioural problems among secondary school students in Kenya .” (4mks)
- c. Advance three justifications why you will uphold ethical values when carrying out your doctorate research project . (6mks)