



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
SCHOOL OF SPATIAL PLANNING
UNIVERSITY EXAMINATION FOR THE DEGREE OF MASTER OF ARTS IN
PROJECT PLANNING AND MANAGEMENT
SEMESTER 2022/2023 ACADEMIC YEAR

CENTRE: MAIN CAMPUS

COURSE CODE: APP 1205

COURSE TITLE: RESEARCH METHODOLOGY

EXAM VENUE:

STREAM: MA PROJECT MANAGEMENT

DATE:

EXAM SESSION:

TIME: 3 HOURS

Instructions:

- 1. Answer ANY THREE questions.**
- 2. Candidates are advised not to write on the question paper.**
- 3. Candidates must hand in their answer booklets to the invigilator while in the examination room.**

QUESTION ONE

Residential developments should have green spaces for relaxation and to improve the aesthetics of such places. However, upcoming residential developments in town A have very little to no green spaces. This works negatively on the quality of urban happiness leading to poor emotional health of a number of its residences. The factors that lead to such developments nevertheless remain unidentified.

Use the above statement of the problem of a study to answer the following questions.

- a) State and identify the three mandatory components of a statement of the problem in the excerpt. (9 marks)
- b) Propose an appropriate title for a study with the above statement of the problem. (2 marks)
- c) Identify the factor of study in the statement of the problem. (1 marks)
- d) Formulate a general objective for a study with such a statement of the problem. (2 marks)
- e) Formulate one suitable specific objective from the general objective in (d) above. (2 marks)
- f) Formulate one suitable research question for the specific objective in (e) above. (2 marks)
- g) Formulate one suitable hypothesis for the specific objective in (d) above. (2 marks)

QUESTION TWO

- a) Discuss the idea that a questionnaire is a psychometric data collection tool. (3 marks)
- b) By means of examples, differentiate between a Likert item and a Likert scale. (8 marks)
- c) Explain **three** methods how observational data can be captured that makes it possible to produce evidence of the same. (6 marks)
- d) List any three types of qualitative data. (3 marks)

QUESTION THREE

- a) State the main thrust of the literature review chapter in postgraduate studies. (2 marks)
- b) Explain **four** major ways of structuring a literature review. (12 marks)
- c) In view of the objective of the literature review chapter in postgraduate studies, which of the approaches in (b) above is the most suitable for such studies? (2 marks)
- d) Besides writing skills, explain two necessary skills for one to be able to write a good literature review. (4 marks)

QUESTION FOUR

An urban planner wanted to study how the tarmacking of given roads had influenced the development of commercial and residential properties over the last five years and the rates at

which they were being rented in two secondary towns in Kenya. In particular, the planner wanted to know the proportion of commercial and residential properties. Furthermore, he also wanted to establish the proportion of residential properties in terms of bungalows, mansions and apartments. The study was to cover developments within 150m buffer (on either sides of the roads) for 5km stretches of the road.

Use the above information to answer the following questions.

- a) State and justify the timeframe that would be appropriate for the study? (2 marks)
- b) Identify the variables or factors in the study. (4 marks)
- c) State and justify the methodological choice that would be most appropriate for this study. (5 marks)
- d) State and justify the strategy that would be most appropriate for the study. (3 marks)
- e) State the three most appropriate and direct target population (data sources) for the study. (6 marks)

QUESTION FIVE

A fourth year student undertaking BSc in Water Resources and Environmental Management studied, for his research project, where JOOUST students who reside in private hostels get their water and their associated costs. At the end of the study, the student concluded that most students source their water from SIBOWASCO taps and the least from boreholes. The student further investigated whether there was a significant difference in the amounts of water male and female students used per week.

- a) What was the unit of analysis? (3 marks)
- b) What was the unit of observation? (3 marks)
- c) State and justify the sampling strategy that was the most appropriate for the study? (3 marks)
- d) Formulate a possible hypothesis the student tested in studying whether female and male students used different amounts of water per week. (8 marks)
- e) State and justify the research design that was appropriate for the study? (3 marks)