

TECHNICAL UNIVERSITY OF MOMBASA

FACULTY OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF ARCHITECTURE & BUILT ENVIRONMENT

COURSE: DIPLOMA IN ARCHITECTURE

UNIT: RESEARCH METHODOLOGY

UNIT CODE: EAR 2303

SPECIAL / SUPPLEMENTARY EXAMINATION

SERIES: SEPTEMBER 2017

INSTRUCTIONS TO CANDIDATES:

THIS PAPER CONSISTS OF FIVE QUESTIONS. ANSWER ANY THREE QUESTIONS.
MAXIMUM MARKS FOR EACH PART OF A QUESTION ARE AS SHOWN.

QUESTION ONE

It has been observed that there is a problem in the staircases that are being used at the Technical University of Mombasa. Explain how you will undertake a study to solve the problem highlighting all the steps in the research process. (20 marks)

QUESTION TWO

- a) Explain how the following types of interviewing are conducted:
- i. Personal - individual; (5 marks)
 - ii. Focus group. (5 marks)
- b) State and explain five advantages of telephone interviewing. (5 marks)
- c) State and explain five disadvantages of telephone interviewing. (5 marks)

QUESTION THREE

- a) State the difference between a questionnaire and an interview schedule and explain how they are used for data collection. (4 marks)
- b) Identify and explain the three basic types of questionnaires. (12 marks)
- c) What is the significance of piloting a questionnaire after developing it? (4 marks)

QUESTION FOUR

Explain what you will undertake to do in the following steps of the scientific research process:

- a) Formulating the research problem; (5 marks)
- b) Extensive review of literature; (5 marks)
- c) Developing the research objectives; (5 marks)
- d) Preparing the research design. (5 marks)

QUESTION FIVE

- a) Explain how primary data can be collected in the following methods:
- i. Survey method; (5 marks)
 - ii. Observation method. (5 marks)
- b) State the limitations of using the following methods of data collection:
- i. Survey method; (5 marks)
 - ii. Observation method. (5 marks)