



TECHNICAL UNIVERSITY OF MOMBASA
**Faculty of Engineering &
Technology**

DEPARTMENT OF BUILDING & CIVIL ENGINEERING
DIPLOMA IN ARCHITECTURE (DA 12J)

EAR 2303: RESEARCH METHODOLOGY

END OF SEMESTER EXAMINATION

SERIES: DECEMBER 2013

TIME ALLOWED: 2 HOURS

Instructions to Candidates:

You should have the following for this examination

- *Answer Booklet*

- *Scientific Calculator*

This paper consists of **FIVE** questions. Answer question **ONE** and any other **TWO** questions

Maximum marks for each part of a question are as shown

This paper consists of **TWO** printed pages

Question One

- a) Using an illustrative flow chart, briefly describe the different ways involved in a research process. **(10 marks)**
- b) Distinguish between:
- (i) Research methods and techniques
 - (ii) Research methods/techniques and methodology **(20 marks)**

Question Two

When designing a research project proposal, discuss what each of the following chapters must contain:

- a) Introduction **(5 marks)**
- b) Literature review **(5 marks)**
- c) Research methodology **(5 marks)**
- d) Conclusion **(5 marks)**

Question Three

- a) What is your understanding of:
- (i) Research **(5 marks)**
 - (ii) Research objectives **(5 marks)**
- b) Discuss at least FOUR types of research **(10 marks)**

Question Four

- a) What is a research problem.
- b) Discuss the main issues which should be considered in formulating a research problem.

Question Five

Primary data can be collected either through experiments or survey. Through survey briefly explain how data could be collected through the following ways:

- a) Observations **(5 marks)**
- b) Personal interviews **(5 marks)**
- c) Telephone interviews **(5 marks)**
- d) Questionnaires **(5 marks)**