



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

DEPARTMENT OF BUILDING & CIVIL ENGINEERING

DIPLOMA IN ARCHITECTURE (DA 13M)

EAR 2303: RESEARCH METHODOLOGY

END OF SEMESTER EXAMINATION

SERIES: APRIL 2015

TIME ALLOWED: 2 HOURS

Instructions to Candidates:

You should have the following for this examination

- *Answer Booklet*

This paper consists of **FIVE** questions. Answer any **THREE** questions of the **FIVE** questions

Maximum marks for each part of a question are as shown

All questions carry equal marks, i.e. **20** marks

Use neat, large and well labeled diagrams where required
This paper consists of **TWO** printed pages

Question One

- a) Highlight **THREE** meanings of the term, research. **(5 marks)**
- b) (i) Enumerate **FIVE** purposes of research **(5 marks)**
(ii) Explain each of the **FIVE** purposes of research in (i) above **(10 marks)**

Question Two

- a) List **FIVE** sources of knowledge **(2 ½ marks)**
- b) Give an outline of each source of knowledge in (a) above **(10 marks)**
- c) Identify **FIVE** characteristics of a good problem statement **(5 marks)**
- d) State **THREE** objectives that you, as a researcher, may come up with when you intend to carry out a study on the factors that contribute to poor housing in Kenyan Towns **(2 ½ marks)**

Question Three

Discuss the following basic terminologies as used in research:

- a) Population
 - b) Sampling
 - c) Objective
 - d) Variable
 - e) Hypothesis
 - f) Problem statement
 - g) Statistics
 - h) Data
- (20 marks)**

Question Four

- a) Name the **FIVE** major sections of a research project **(2 ½ marks)**
- b) Describe the **FIVE** major sections of a research project in (a) above **(17 ½ marks)**

Question Five

- a) As a researcher, exhibit the difference between qualitative and quantities researches. **(6 marks)**
- b) State **SEVEN** purposes of hypotheses **(7 marks)**
- c) Enumerate seven steps in carrying out a literature review **(7 marks)**