



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

DEPARTMENT OF BUILDING & CIVIL ENGINEERING

DIPLOMA IN ARCHITECTURE (DA)

EAR 2303: RESEARCH METHODOLOGY

END OF SEMESTER EXAMINATION

SERIES: APRIL 2014

TIME ALLOWED: 2 HOURS

Instructions to Candidates:

You should have the following for this examination

- *Answer booklet*

This paper consists of **FIVE** questions. Answer question **ONE (Compulsory)** 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

Explain how a researcher uses the scientific method to acquire and validate knowledge. **(30 marks)**

Question Two

Identify and explain the **FOUR** basic types of sampling used in the scientific research method. **(20 marks)**

Question Three

Define the following terminologies used in research:

- a) Hypothesis **(4 marks)**
- b) Respondent **(4 marks)**
- c) Sampling **(4 marks)**
- d) Variable **(4 marks)**
- e) Methodology **(4 marks)**

Question Four

- a) What is research? **(5 marks)**
- b) State **FIVE** prime objectives of undertaking research. **(10 marks)**
- c) Distinguish between experimental and comparative methods of research. **(5 marks)**

Question Five

- a) Identify the **THREE** main types of interviews and explain to show their difference. **(15 marks)**
- b) What is the difference between an interview schedule and questionnaire? **(5 marks)**