

TECHNICAL UNIVERSITY OF MOMBASA

Faculty of Engineering & Technology

DEPARTMENT OF BUILDING & CIVIL ENGINEERING

UNIVERSITY EXAMINATION FOR:
BACHELOR OF SCIENCE IN CIVIL ENGINEERING

HRD 2114: 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

This paper consists of **FIVE** questions. Answer question **ONE** (**Compulsory**) and any **TWO** questions Maximum marks for each part of a question are as shown

This paper consists of **TWO** printed pages

Question One (Compulsory)

a) (i) Briefly explain FOUR main objectives of conducting research. (8 marks)

(ii) Outline EIGHT steps in the Research process (8 marks)

b) (i) Briefly describe the types of measurement scales used in research. (8 marks)

(ii) Explain the function of hypothesis in research (6 marks)

Question Two

Discuss the considerations taken into account when selecting a research problem. (20 marks)

Question Three

a) Outline the procedure used for reviewing literature (6 marks)

b) Discuss the significance of research in Civil Engineering (14 marks)

Question Four

a) Explain the FOUR parts of research design (8 marks)

b) Briefly outline the weakness of interview method of data collection (12 marks)

Question Five

- a) Briefly describe the following types of Research design:
 - (i) Exploratory
 - (ii) Descriptive
 - (iii) Hypothesis testing (9 marks)

b) Distinguish between MLA and APA methods of citation giving an example in each case.

(11 marks)