



# TECHNICAL UNIVERSITY OF MOMBASA

FACULTY OF APPLIED AND HEALTH SCIENCES

DEPARTMENT OF ENVIRONMENT & HEALTH SCIENCES

**UNIVERSITY EXAMINATION FOR:**

BSMR15S/YEAR3/SEMESTER1

AES 4303: RESEARCH METHODOLOGY

SPECIAL/ SUPPLEMENTARY EXAMINATIONS

**SERIES: SEPTEMBER 2018**

**TIME: 2HOURS**

**DATE: Pick Date Sep 2018**

## Instructions to Candidates

You should have the following for this examination

-Answer Booklet, examination pass and student ID

This paper consists of **TWO** Section(s). Attempt question ONE (Compulsory) and any other TWO questions.

**Circle the correct answer in section A.**

## Question one

- a. Define the following;
  - i. Range 2mks
  - ii. Mean deviation 2mks
- b. Describe kurtosis 5mks
- c. State the aims of research 4mks
- d. Outline the uses of objectives in a research 5mks
- e. Outline points that need to be considered for justifying the selected research problem 4mks
- f. Describe the contents of a report abstract/Summary 4mks
- g. State the documents attached in the appendices section in a research report 3mks

## Question two

- a. Outline the criteria for selecting a research topic 14mks

b. Describe the uses of literature review 6mks

**Question three**

a) Describe the following variables;

i. Background variables 5mks

ii. Confounding variable 5mks

b. Describe what is included in the results section of a research report; 10mks

**Question four**

Describe possible sources of bias during data collection; 20mks

**Question five**

a) Discuss the requirements for sample size calculation and estimation of a proportion; 20mks