



THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(A Constituent College of JKUAT)

(A Centre of Excellence)

Faculty of Engineering & Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

**UNIVERSITY EXAMINATION FOR DEGREE IN BACHELOR OF
TECHNOLOGY IN INFORMATION TECHNOLOGY**

(BTIT/M11)

EIT 4309: RESEARCH METHODS

SPECIAL/SUPPLEMENTARY EXAMINATION

SERIES: OCTOBER 2012

TIME: 2 HOURS

Instructions to Candidates:

You should have the following for this examination

- *Answer Booklet*

This paper consist 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

SECTION A (COMPULSORY)

Question One (30 marks)

- a) Outline **FOUR** characteristics of a good research question. **(4 marks)**
 - b) Distinguish between references and bibliographies **(4 marks)**
 - c) Differentiate between a research proposal and a research report. **(4 marks)**
 - d) Define the following terms as applied in research method:
 - i) Quantitative Research
 - ii) Historical Research
 - iii) Qualitative Research
 - iv) Descriptive Research **(8 marks)**
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e) (i) Define Literature Review.

(ii) Explain **TWO** types of skills that are gained and can be demonstrated in writing literature review (5 marks)

f) (i) Define a research problem

(ii) Outline **THREE** elements of a potential research situation. (5 marks)

SECTION B (Answer Any Two Questions)

Question Two (20 marks)

Describe in details any **FIVE** common research strategies. (20 marks)

Question Three (20 marks)

You have identified a research problem that you wish to pursue.

Required:

i) Describe **FOUR** things that the literature review should do.

ii) Describe the questions that you would ask yourself in coming up with a good literature review. (20 marks)

Question Four (20 marks)

Describe **FIVE** key components of the research process “onion” (20 marks)

Question Five (20 marks)

You have been told that there is an organization that is funding research projects in your area of study.

REQUIRED:

i) Describe in detail **FIVE** factors that you would consider in identifying the research problem. (10 marks)

ii) Explain **FIVE** questions that you are likely to ask yourself while justifying the selected research problem. (10 marks)