



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)**