TECHNICAL UNIVERISTY OF MOMBASA

Faculty of Engineering & Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

UNIVERSITY EXAMINATION FOR:
BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY/BACHELOR
OF TECHNOLOGY IN INFORMATION COMMUNICATION TECHNOLOGY
(BSIT 11M)

BIT 2301: RESEARCH METHODOLOGY

EIT 4309: RESEARCH METHODS

END OF SEMESTER EXAMINATION
SERIES: DECEMBER 2013
TIME: 2 HOURS

Question One (Compulsory)

a) "Research is said to be an <u>organized</u> and <u>systematic</u> way to find answers to questions". Explain the meaning of the underlined words in the above statement.   **(4 marks)**

b) Distinguish between research methods and research methodology   **(4 marks)**

c) Explain the importance (significance) of research in our day to day lives   **(6 marks)**

d) Describe any FOUR types of research according to the method or procedures used.   **(8 marks)**

e) Explain any FOUR threats to validity of research   **(8 marks)**

Question Two

You are working in an organization as a new employee, while carrying out your duties you notice a problem that need to be solved using ICT solutions and you recall that you need to write a research proposal so that you can be allowed to carry out the research. Required:

(i)   Outline the importance of research proposals
(ii) Outline why research proposals are rejected
(iii) State any FOUR types of research proposal
(iv) Write a sample outline of a research proposal   **(20 marks)**

Question Three

As a final year student in ICT your are expected to write a report on your final year project for presentation. Required.

a) Outline key areas that you would include in your reports
b) Discuss the key areas that are to be included in the title, abstract and introduction   **(20 marks)**

Question Four

Discuss some of the key consideration that a research has to overcome while formulating a research problem.   **(20 marks)**

Question Five

a) Describe common research strategies that are common in ICT research.

b) Describe data collection methods that are commonly used in ICT research   **(20 marks)**