



THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(A Constituent College of Jkuat)

Faculty of Engineering and Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

DIPLOMA IN INFORMATION COMMUNICATION TECHNOLOGY-(DICT IOA)

AMA 2102 : RESEARCH METHODS

END OF SEMESTER EXAMINATIONS

SERIES: AUGUST/SEPTEMBER 2011

TIME: 2 HOURS

Instructions to Candidates:
You should have the following for this examination

Answer booklet

Answer question ONE (COMPULSORY) and any other TWO questions

This paper consists of **TWO** printed pages

Question One

a) Define the following terms as used in Research:

 (i) Research (ii) Theory (iii) Hypothesis marks) 	(2 marks) (2 marks) (2
(iv)Statement of the problem (v) Sampling (vi)Data	(2marks) (2 marks) (2 marks)
b) Differentiate between the following terms:	
(i) Independent Variables and Dependent Variables(ii) Null Hypothesis and Alternative Hypothesis	(4 marks) (4 marks)
c) Describe FIVE importance of hypothesis as a tool of research	(10 marks)
Question Two	
Describe the plan used in writing a research proposal, indicating in detail the major componing in writing it	ents required (20 marks)
Question Three	
a) Define sampling	(2 marks)
b) State and explain sampling techniques available	(4marks)
c) Explain in detail the types of research designs/methods	(14 marks)
Question Four	
a) A questionnaire is a tool used to do research. Give the features of a good questionnaire	(10 marks)
b) State and explain in detail the types of observational research	(10 marks)
Question Five	
a) Define survey design as a method of research	(2 marks)
b) Outline the EIGHT ethical considerations in research	(8 marks)
c) List four significances of research designs	(4 marks)

- d) Briefly describe **SIX** roles of research (6 marks)
- e)