

TECHNICAL UNIVERISTY OF MOMBASA

Faculty of Engineering &

Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

DIPLOMA IN INFORMATION COMMUNICATION TECHNOLOGY (DICT 12M S-EV/S-FT)

ECS 2206: RESEARCH METHODS

SPECIAL/SUPPLEMENTARY EXAMINATION SERIES: MARCH 2014 TIME: 2 HOURS

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

Ma Th Qu	 <i>Answer Booklet</i> as paper consists of FIVE questions. Attempt question ONE and any other TWO questions ximum marks for each part of a question are as shown is paper consists of THREE printed pages Lestion One (Compulsory) Define the following terms: (i) Variable 	(5 marks)	
	 (i) Variable (ii) Theory (iii) Hypothesis (iv) Plagiarism (v) Target population 		
b)	Differentiate between closed and open ended questionnaires	(2 marks)	
c)	Giving an example, differentiate between independent and dependent variables.	(4 marks)	
d)	State and explain TWO types of hypothesis.	(4 marks)	
e)	Describe THREE characteristics of a good research.	(4 marks)	
f)	State and explain the types of research according to purpose and methods/procedures	used. (10 marks)	
Question Two			
a)	State FIVE importance of a research proposal.	(5 marks)	
b)	Give FIVE reasons of conducting a research.	(10 marks)	
c)	State and explain FIVE problems that researchers face during literature review.	(5 marks)	
Question Three			
a)	State the importance of formulating a hypothesis.	(2 marks)	
b)	Explain FOUR driving factors to conduct a research.	(4 marks)	
c)	Define the term "sampling" and explain FOUR types of sampling.	(9 marks)	
d)	Define a research proposal and explain two types of a research proposal.	(5 marks)	
Question Four			
a)	Dr. Said is conducting a research on "mushroom growing" in the University of Na FIVE factors that needs to be considered when selecting a research tool.	irobi, explain (5 marks)	
b)	Briefly explain the content of a research proposal.	(10 marks)	
c)	State and explain FIVE factors considered when formulating a research problem.	(5 marks)	

Question Five

a)	State TWO sources and FOUR importance of literature review.	(6 marks)
b)	Differentiate between structured and unstructured interviews.	(4 marks)
c)	Explain FOUR factors that are used to measure the validity of a research report.	(8 marks)
d)	Give the importance of data collection.	(2 marks)