

TECHNICAL UNIVERISTY OF MOMBASA

Faculty of Engineering &

Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

UNIVERSITY EXAMINATION FOR: BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY (BSIT M12) BIT 2301: RESEARCH METHODOLOGY

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

Instructions to Candidates:

You should have the following for this examination *Answer Booklet*This paper consists of **FIVE** questions. Attempt 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

Question One (Compulsory)

a) Describe the term research		
 b) Describe the following research studies: (i) Exploratory (ii) Descriptive (iii) Explanatory or analytical study 	(6 marks)	
 c) (i) Outline FOUR major sources of research problems. (i) Outline SIX steps of formulating a research problem 	(6 marks)	
d) Distinguish between experimental research and experimental design	(4 marks)	

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e)	State t	he main characteristics of a good research question.	(4 marks)	
f)	Descri (i) (ii) (iii) (iv)	ibe the following types of research: Qualitative Historical Quantitative Ethnography	(8 marks)	
Question Two				
A good researcher must do a good literature review:				
	(i) (ii)	Describe FOUR things that a good literature reviewer must do. Describe the questions that one should answer to come up with a good liter	rature review. (20 marks)	
Question Three				
a)	Case s (i) (ii)	studies are widely used in computer science research: Describe case study Describe FIVE key steps that one takes in coming up with a good case study	(14 marks)	
b)	Descr	ibe survey as applied in research methods	(6 marks)	
Question Four				
Different records we differing environshes to records, discuss the records process "enion"				

Different researchers use differing approaches to research, discuss the research process "onion"

(20 marks)

Question Five

One of the major step in a good research is selecting the research problem and question. Discuss how one would go about this step. (20 marks)