



(The University of Choice)

MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY (MMUST)

MAIN CAMPUS
2021/2022 ACADEMIC YEAR
UNIVERSITY EXAMINATIONS

SPECIAL/SUPPLEMENTARY FOR SECOND YEAR EXAMINATIONS

FOR THE DEGREE

OF

BACHELOR OF COMPUTER SCIENCE, INFORMATION TECHNOLOGY & INFORMATION SYSTEMS AND KNOWLEDGE MANAGEMENT

COURSE CODE:

BCS 222/BIT 223

COURSE TITLE:

RESEARCH METHODS & TECHNICAL

WRITING

DATE: MONDAY 01-08-2022

TIME: 8:00A.M-10:00A.M

INSTRUCTIONS TO CANDIDATES

Answer questions ONE and any other TWO questions.

TIME: 2 Hours

MMUST observes ZERO tolerance to examination cheating

This Paper Consists of 3 Printed Pages. Please Turn Over.

QUESTION ONE 30 MARKS (COMPULSORY)

a.	Identify at least FIVE essentials of a good Questionnaire.	5 Marks	
b.	. Differentiate between the following terms as they are applied in research:		
	i. Basic research and applied research	4 Marks	
	ii. Probability sampling and non-Probability sampling	4 Marks	
c.	Identify at least SIX Qualitative Research Methods and SIX types of qual	itative self-	
	report techniques.	6 Marks	
d.	Briefly explain each of the following terms as applied in research.		
	i. Sampling	2 Marks	
	ii. Data Analysis	2 Marks	
	iii. Conceptual Framework	2 Marks	
e.	Identify and briefly explain FIVE specific purposes of research.	5 Marks	
QUESTION TWO 20 MARKS			
a.	State and briefly explain ANY THREE effective and commonly used me	thods of data	
	collection in research.	6 Marks	
b.	State the key Steps in the Formulation of Research Problem.	6 Marks	
c.	Briefly explain each of the following terms as they are applied in research.		
	i. Qualitative research	2 Marks	
	ii. Hypothesis	2 Marks	
	iii. Explanatory Research	2 Marks	
	iv. Interpretation	2 Marks	
QUESTION THREE 20 MARKS			
a.	Differentiate between the following common research concepts		
	i) Reliability and validity	3 Marks	
	ii) Null and Alternative Hypothesis	3 Marks	
	iii) Depended and Independent variable	3 Marks	
	iv) Limitations and Delimitation	3 Marks	
b.	Identify at least FOUR questions which constitute the core of a research d	esign.	
		8 Marks	
	QUESTION FOUR 20 MARKS		
a.	Highlight FIVE Components of a good Research Design	5 Marks	
b.	. A number of factors do affect research design. Identify FIVE such factors and briefly		
	explain how they affect the research design. 5 Marks		
c.	Identify a researchable problem in your core area of study; using your knowledge in		
	research, briefly do chapter one of the study. Be certain to include all the components of		
	the chapter.	10 Marks	

QUESTION FIVE 20 MARKS

a. Differentiate between primary and secondary data as they are applied in research.

4 Marks

b. Identify and briefly explain **FOUR** essentials of a good sampling.

8 Marks

c. Explain the different sources of secondary data and the precautions in using secondary data.

8 Marks