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## KIRIRI WOMENS' UNIVERSITY OF SCIENCE AND TECHNOLOGY UNIVERSITY EXAMINATION, 2022/2023 ACADEMIC YEAR FIRST YEAR, SECOND SEMESTER, END OF SEMESTER EXAM FOR THE DIPLOMA IN INFORMATION TECHNOLOGY DCU 1008- RESEARCH METHODOLOGY

Date:26<sup>TH</sup> JULY 2022 Time: 2:30PM – 4:30PM

(4 Marks)

INSTRUCTIONS TO CANDIDATI	<u>ES</u>
<b>ANSWER QUESTION ONE (COM</b>	IPULSORY) AND ANY OTHER TWO QUESTIONS
<b>QUESTION ONE (30 MARKS)</b>	

OUI	ESTION ONE (30 MARKS)	110
a)	Distinguish between the following as used in research;	
	i) Cluster and area sampling	(2 Marks)
	ii) Experiment and survey	(2 Marks)
	iii) Simple hypothesis and composite hypothesis	(2 Marks)
	iv) Research methods and research methodology	(2 Marks) (6 Marks)
b)	· ·	
	i) A probability sample	
	ii) A non-probability sample	
	iii) A stratified sample	
c)	Outline the major steps followed in conducting a research.	(6 Marks)
d)	Explain Three sources of research problems.	(6 Marks)
e)	Explain Four problem likely to be experienced by a researcher.	(4 Marks)
<u>QUI</u>	ESTION TWO (20 MARKS)	
a)	Describe the observational design as used in research.	(4 Marks)
b)	Explain Three Characteristics of Scientific Research.	(6 Marks)
c)	State Three merits and three demerits of direct personal interviews.	(6 Marks)
d)	Explain the importance of literature review in research.	(4 Marks)
QUI	ESTION THREE (20 MARKS)	
a)	Describe Four types of research that can be conducted.	
b)	Describe the techniques of defining a research problem.	
c)	Explain the importance of defining a research problem.	(6 Marks)
<u>)UES'</u>	ΓΙΟΝ FOUR (20 MARKS)	
a)	Explain the significance of a Research design.	(4 Marks)
b)	Explain the procedure of selecting a random sample.	(6 Marks)
c)	Differentiate between collection of data through questionnaires and schedules.	(8 Marks)
d)	Describe a research hypothesis.	(2 Marks)
UES'	ΓΙΟΝ FIVE (20 MARKS)	
a)	Explain Four guiding considerations in the construction of questionnaire	(8 Marks)
b)	Describe Four types of analysis of data pointing out the significance of each	(8 Marks)

Describe Two characteristics of a good research hypothesis

c)