

JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY SCHOOL OF BIOLOGICAL, PHYSICAL, MATHEMATICS AND ACTURIAL

SCIENCES

UNIVERSITY EXAMINATION FOR DIPLOMA IN TVET

EXAM 2022/2023

MAIN REGULAR

COURSE CODE: WMB 2113

COURSE TITLE: RESEARCH METHODS

EXAM VENUE STREAM: Diploma in Applied Statistics

DATE:.... EXAM SESSION: ONE

TIME: 3 HOURS

Instructions:

1. Answer ONE and any other three questions only.

2. Candidates are advised not to write on the question paper.

3. Candidates must hand in their answer booklets to the invigilator while in the examination room.

SECTION A: 30 MARKS

a). Explain two primary methods of data Collection.	[4 Marks]		
b). Explain three ethical issues to be put in consideration during prin secondary data collection	nary and [6 Marks]		
c). Differentiate between probability and Non probability sample design [2 Marks]			
d). Explain three sampling techniques used in Research	[3 Mark]		
e). State three factors that affect sample design			
f). Explain four characteristics of a well stated research problem	[4 Marks]		
g). State and Explain two elements of Data Analysis	[2 Marks]		
h). State two types of research designs	[2 Marks]		
i). Explain two criteria of a good research	[2 Marks]		
j). Identify a Research Topic and Briefly Illustrate the following;	[5 Marks]		
i. Aim of the Studyii. Two objectives of your studyiii. Null and Alternative Hypothesis	of your Study		

SECTION B: 40 MARKS

QUESTION ONE

a)	Explain FIVE reasons why research is important	[5 Marks]		
b)	Outline Research Processes	[5 Marks]		
c)	Highlight FIVE factors to consider when highlighting Research	n Topic		
		[5 Marks]		
d)	State FIVE components of an introduction section of a research	n report		
		[5 Marks]		
QUESTION TWO				
a)	Explain THREE advantages and THREE disadvantages of sampling	g during data		
	collection.	[12 Marks]		
b)	Explain FOUR main Sampling Techniques	[8 Marks]		
QUESTION THREE				
	a) Explain the meaning of Research Process. [1	Mark]		
	b) Explain FIVE reasons why literature review is important in t	the research		
	process.	[10 Marks]		
	c) Identify FIVE sources of literature available for researchers	[5 Marks]		

d) Explain **TWO** ways available for researchers to use information gathered from literature sources without accusation of plagiarism [4 Marks]

QUESTION FOUR

a) Explain FIVE reasons why hypothesis is important in research	[10 Marks]
b) Discuss TWO types of alternative hypothesis	[5 Marks]
c) Highlight FIVE characteristics of a good hypothesis	[5 Marks]