

JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

KISHI LEARNING CENTRE

HDC2221: INTRODUCTION TO RESEARCH METHODS

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SECTION A

Answer all questions in this section

1. Define the following terms: 5marks
 - a. Target population
 - b. Sampling frame
 - c. element
 - d. sample
 - e. variable
2. What are the sources of a research question? 2 marks
3. What are some of the roles one can take in research? 2marks
4. Outline five characteristics of a hypothesis. 5marks
5. Define four ethical theories. 4marks
6. What are the functions of literature review? 5marks
7. Outline the differences between qualitative and quantitative research. 6marks
8. Describe the four levels of measurement. 4marks
9. What are some of the sources of errors in the data collection process? 3marks
10. Describe the two main experimental design define two examples in each. 4 marks

SECTION B

Answer any two questions in this section

1. Outline the elements in a consent form and the ethical principles (15 marks)
2. Define types of probability and non probability sampling giving their advantages and disadvantages (15 marks)
3. Interview is one of the methods of data collection. State the factors that might influence the interview outcome and the advantages and disadvantages if using interviews as a data collection method. (15 marks)

4. In the following data set from Shubiri STI Clinic; calculate the three measures of central tendency from the totals and draw an appropriate graph that will give a clear comparison of men and women who attended the clinic in the **first six months** of the year. (15 marks)

Month	male	female	
Jan	230	287	517
Feb	87	79	166
Mar	873	948	1821
Apr	538	293	831
May	523	874	1397
Jun	873	789	1662
Jul	890	772	1662
Aug	435	756	1191
Sep	876	786	1662
Oct	834	987	1821
Nov	421	756	1177
Dec	193	678	871