

**JARAMOGI OGIGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
SCHOOL OF HEALTH SCIENCES
MPH. EXAMINATION**

(KISII LEARNING CENTER)

**END SEMESTER EXAMINATION
HMP 5115: RESEARCH METHODS**

August 2013

TIME ALLOWED: 3 HRS.

Note: Answer question one and any other three questions

QUESTION 1 (COMPULSORY)

- a) Define sampling and state two principles of sampling (3 Marks).
- b) Distinguish between (8 Marks)
 - i. Non-scientific and scientific research
 - ii. Interview and observation in qualitative research
 - iii. Ethics and bias
 - iv. Descriptive and analytical study
- c) When do researchers use open ended questions (2 Marks)
- d) State three (2) functions of hypothesis (2 Marks)

QUESTION 2

- a) Define literature review and state its purpose in research (6 Marks)
- b) Briefly describe the three (3) methods of determination of research findings (6 Marks)
- c) Differentiate between cluster and stratified sampling (3 Marks)

QUESTION 3

- a) What is a project proposal (2 Marks)
- b) Briefly describe a budget as used in research (3Marks)
- c) State the importance of report writing in research (2 Marks)

- d) Briefly describe four (4) the qualities of a good report (**8 Marks**)

QUESTION 4

- a) Suppose a sample of 100 patients is required from the register of 2,000 patients available in the records section of a teaching hospital. Briefly explain how you will obtain the patients through systematic sampling (**5 Marks**)
- b) Briefly outline four (4) probability sampling techniques (**10 Marks**)

QUESTION 5

- a) Name three (3) basic types of questionnaires used in research (**3 Marks**)
- b) State the steps involved in the research process (**4 Marks**)
- c) Briefly describe the research cycle (**12 Marks**)

QUESTION 6

- a) Write short notes on (**9 Marks**)
- i. Ethics concerning research process
 - ii Hypothesis
 - iii Questionnaire
- b) Briefly outline the differences between;
- i. Primary and secondary data (**2 Marks**)
 - ii. Matched controlled and cross-over study design (**2 Marks**)
 - iii. Sampling fraction and sampling frame (**2 Marks**)