



MASENO UNIVERSITY
UNIVERSITY EXAMINATIONS 2013/2014

**THIRD YEAR SECOND SEMESTER EXAMINATIONS FOR THE
DEGREE OF BACHELOR SCIENCE (PUBLIC HEALTH) WITH
INFORMATION TECHNOLOGY**

(MAIN CAMPUS)

PMT 328: RESEARCH METHODOLOGY

Date: 15th July 2014

Time: 11.00 – 1.00 pm

INSTRUCTIONS:

1. Write your University Registration Number on every booklet that you use.
 2. Do not write your name on any papers you use.
 3. The Questions are set out in **Two (2)** Sections, A and B
 4. **Section A** has **FIVE (5)** Short Answer Questions (SAQs) to be answered in **(30) minutes**,
 5. **Section B** has **Four (4)** Long Essay Questions (LEQs) to be answered in **(90) Minutes**.
 6. The time allowed for this Paper is **TWO (2)** hours.
 7. **Read very carefully the additional instructions preceding each Section.**
- Observe carefully further instructions on the cover of Answer Booklets**

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Section A. Answer all questions in this section (20marks)

- 1a. i. Define research? (1mark).
- ii. State 6 qualities of a good quality research? (3marks).
- b. Outline some of the uses of Research? (4marks).
- c. State four determinants of a sample size for any given study? (4marks).
- d. Outline four purposes of a literature review in Research? (4marks).
- e. State the four steps in hypothesis testing? (4marks).

Section B. Answer question 2 (COMPULSORY) in this section and any other TWO questions among question 3, 4 and 5.

2. As a Public Health Officer, you have been given a mandate to investigate the utilization of health records at a District health facility. State systematically and briefly describe the components of a research proposal you will use to design a research proposal for this investigation? **(20marks)**

3. Describe the following research methods and give two advantages and disadvantages in each method: **(15marks)**
 - i. Cohort study
 - ii. Case control study
 - iii. Case report
 - iv. Longitudinal study
 - v. Cross sectional study

4.
 - i. Define QUANTITATIVE and QUALITATIVE research approaches **(2.5marks)**
 - ii. Give five detailed point-by-point comparison between the two types of research: **(12.5marks)**

5. With examples, describe the following sampling methods as used in descriptive epidemiology **(15marks)**
 - i. Simple random sampling
 - ii. Systematic random sampling
 - iii. Stratified random sampling
 - iv. Multi-stage random sampling
 - v. Cluster random sampling