



MASENO UNIVERSITY

UNIVERSITY EXAMINATIONS 2013/2014

THIRD YEAR SECOND SEMESTER EXAMINATIONS FOR THE
DEGREE OF BACHELOR OF MEDICAL LABORATORY SCIENCE,
MEDICAL BIOTECHNOLOGY AND PHARMACEUTICAL SCIENCES
WITH INFORMATION TECHNOLOGY

(MAIN CAMPUS)

PMT 328: RESEARCH METHODS AND SCIENTIFIC WRITING

Date: 15th July 2014

Time: 11.00 – 1.00 pm

INSTRUCTIONS:

- Answer ALL questions in section.



SECTION A (40 marks)

Answer all questions in section.

- Q.1 Give two definitions of research (4 marks)
- Q.2 Give two reasons why research is important (4 marks)
- Q.3 Define a problem statement and explain three key considerations important in selecting a research problem (4 marks)
- Q.4 Outline the procedure for deriving an effective literature review (4 marks)
- Q.5 Explain the following:
- a) Convenience sampling (2 marks)
 - b) Purposive sampling (2 marks)
 - c) Systematic sampling (2 marks)
 - d) Stratified sampling (2 marks)
 - e) Cluster sampling (2 marks)
- Q.6 Describe the following terms
- a) Data validity and reliability (4 marks)
 - b) Study population and sample population (4)
 - c) Research variables (2)
- Q.7 Differentiate quantitative from qualitative research methods (4 marks)

SECTION B (40 marks)

Answer question 8 **COMPULSORY**, and **EITHER** Question 9 or Question 10

- Q.8 Explain the key components of the following:
- a) A research proposal (10 marks)
 - b) A research report (10 marks)
- Q.9 Explain the structure, advantages and disadvantages of a prospective cohort study (4,3,3 marks)
- Q.10 Explain the steps involved in the process of data collection (10 marks)