



MASENO UNIVERSITY
UNIVERSITY EXAMINATIONS 2015/2016

FIRST YEAR SECOND SEMESTER EXAMINATIONS FOR THE
DEGREE OF MASTER OF EDUCATION IN PEDAGOGY

CITY CAMPUS -SCHOOL BASED

PED 832: RESEARCH IN MATHEMATICS EDUCATION

Date: 17th December, 2015

Time: 9.00 - 12.00 noon

INSTRUCTIONS:

- Answer ANY FOUR questions.

Q. 1. Discuss the main features of action research and its relevance to Mathematics education. (15 marks)

Q. 2. A researcher intends to investigate the relationship between Teachers' use of vague terms in Mathematics class and student achievement". Formulate suitable research objectives and give guidelines for conducting the research.

(15 marks)

Q. 3. Explain the following terms in relation to research in Mathematics Education .

(a). Basic research

(b). Validity

(c). Reliability

(15 marks)

Q. 4. Explain how you would use instructional plans as a basis for research in Mathematics Education. (15 marks)

Q. 5. Discuss issues that face researchers in Mathematics Education.

(15 marks)

Q. 6. (a) Why would you need to carry out direct observation of teacher-learner activities for research in Mathematics Education?

(b) Design a checklist you would use to assess your students in a Mathematics lesson. (15 marks)