



MASENO UNIVERSITY
UNIVERSITY EXAMINATIONS 2013/2014

**FIRST YEAR SECOND SEMESTER EXAMINATIONS FOR THE
DEGREE OF MASTER OF EDUCATION IN PEDAGOGY
(MAIN CAMPUS)**

EPE 808: RESEARCH IN BIOLOGY EDUCATION

Date: 9th April, 2014

Time: 2.00 - 5.00pm

INSTRUCTIONS:

- Answer ANY THREE questions.



QUESTION ONE

Discuss the need to use the process approach to teaching Biology using any five processes. (20 marks)

QUESTION TWO

Distinguish between a conceptual and a theoretical framework in Biology education research giving specific examples of research topics where each would be applied. (20 marks)

QUESTION THREE

Conceptualize a research problem related to Biology education and clearly articulate ethical issues a researcher may need to take into account to make the research scientifically acceptable. (20 marks)

QUESTION FOUR

Discuss challenges that teachers of secondary school Biology face in teaching the subject and highlight how research could be used to overcome these challenges. (20 marks)

QUESTION FIVE

Use class challenges to identify possible sources of research findings a Biology teacher could use to solve classroom problems. (20 marks)