



EMBU UNIVERSITY COLLEGE
(A CONSTITUENT COLLEGE OF THE UNIVERSITY OF NAIROBI)
FIRST SEMESTER EXAMINATION 2014/2015
FIRST YEAR EXAMINATION FOR THE DEGREE OF MASTER OF SCIENCE IN
ENTOMOLOGY

SZL 515: RESEARCH METHODOLOGY

DATE: DECEMBER 9, 2014

TIME: 16:00 – 19:00

INSTRUCTIONS:

Answer Question ONE and ANY Other THREE Questions.

QUESTION ONE

- a) Discuss five purposes of research giving examples (20 marks)
- b) Outline five sources of knowledge (5 marks)

QUESTION TWO.

A researcher is interested in studying the hand-washing practices of children attending primary schools in Eastern Kenya.

- a) Discuss the population that will be studied (5 marks)
- b) Explain how the researcher will draw the sample for this research study (10 marks)
- c) Outline five situations when large samples are required. (5 marks)
- d) Describe sampling error and sampling fluctuation (5 marks)

QUESTION THREE.

- a) Discuss the process of formulating a researchable problem (20 marks).

- b) State five purposes of hypotheses (5 marks)

QUESTION FOUR.

- a) Give five examples of sampling frames that researchers can use to select a representative sample (5 marks)
- b) Define mode, median, mean and standard deviation. (10 marks)
- c) Discuss five rules researchers use in constructing questionnaire items and state advantages and disadvantages of closed-ended questions. (10 marks)

QUESTION FIVE.

- a) Define and state the purpose of descriptive statistics (5 marks)
- b) Discuss factors that often threaten internal validity of a research study (20 marks)

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