



**UNIVERSITY OF SWAZILAND  
FINAL EXAMINATION PAPER**

**PROGRAMME: BSC. LWM (YEAR 3)**

**COURSE CODE: LUM 305**

**TITLE OF PAPER: RESEARCH METHODS**

**TIME ALLOWED: TWO (2) HOURS**

**SPECIAL MATERIAL REQUIRED: NONE**

**INSTRUCTIONS: ANSWER QUESTION ONE AND ANY TWO OTHER  
QUESTIONS.**

**DO NOT OPEN THIS PAPER UNTIL PERMISSION HAS BEEN  
GRANTED BY THE CHIEF INVIGILATOR**

**QUESTION 1 (COMPULSORY QUESTION)**

- (a) Discuss what is meant by a sampling frame, giving example of a possible sampling frame for use in a research on utilisation of a named land resource in Swaziland. (20 marks)
- (b) Discuss the difference between Posttest-Pretest control group and Posttest-Only control group experimental designs, specifying advantages and disadvantages of each of the designs, (20 marks)

**QUESTION 2**

- a. Describe how stratified random sampling can be used in a research to determine the effects of an innovation in a community, highlighting conditions under which it can be used. (15 marks)
- b. Using examples describe the difference between a null hypothesis and a directional hypothesis. (15 marks)

**QUESTION 3**

- a. Discuss the conditions under which questionnaires are used to collect data for research. (15 marks)
- b. Discuss how correlation is used in data analysis, indicating how correlation coefficients can be interpreted. (15 marks)

**QUESTION 4**

- a. Using examples, describe the conditions under which descriptive statistics can be used. (15 marks)
- b. Using examples, describe the difference between independent variables and dependent variables. (15 marks)