



NATIONAL OPEN UNIVERSITY OF NIGERIA
FACULTY OF AGRICULTURAL SCIENCES
DEPARTMENT OF CROP AND SOIL SCIENCES

EXAMINATION: POP EXAMINATION

COURSE TITLE: STATISTICS AND RESEARCH METHODOLOGY

COURSE CODE: AGR 501

TOTAL SCORE: 70 MARKS

TIME ALLOWED: 2 hours 30 minutes

INSTRUCTION: Answer FOUR Questions in all.

Question 1 is compulsory (30 marks) and any three questions (10 marks each)

QUESTIONS

- 1
 - a) Differentiate between researchable and non-researchable problems. **(12 marks)**
 - b) List five major points to consider when selecting a research problem. **(10 marks)**
 - c) Name the three methods use for data collection in agricultural research. **(8 marks)**

(30 marks)
- 2
 - a) Give four reasons why hypothesis is important in research. **(4 marks)**
 - b) State two examples of each of parametric and non-parametric test. **(6 marks)**
- 3
 - a) List the most frequently used parametric test for agricultural research. **(6 marks)**
 - b) Write short notes on the answers in 3a. **(4 marks)**
- 4
 - a) List four factors that affect the level of significance. **(6 marks)**
 - b) States four major reasons why hypothesis is important in a research. **(4 marks)**
- 5
 - a) Describe the two major classification of hypothesis **(5 marks)**
 - b) Construct a flow diagram for hypothesis testing. **(5 marks)**
- 6
 - a) Give three advantages and of hypothesis testing. **(5 marks)**
 - b) Define research design and list types of research design. **(5 marks)**
- 7
 - a) What are the major sources of error in Agricultural Research. **(6 marks)**
 - b) What is the concept development as a technique in developing a measurement tool. **(4 marks)**