



**NATIONAL OPEN UNIVERSITY OF NIGERIA
FACULTY OF AGRICULTURAL SCIENCES
DEPARTMENT OF CROP AND SOIL SCIENCES
2025_2 EXAMINATIONS**

COURSE TITLE: STATISTICS AND RESEARCH METHODOLOGY

COURSE CODE: AGR 501

TOTAL SCORE: 70 MARKS

TIME: 3 HOURS

INSTRUCTIONS: ANSWER THREE (3) Questions in all. QUESTION 1 is compulsory (30 marks) and any other (2) questions (20 marks each)

QUESTIONS

1. Briefly describe the term Research and state three (3) attributes each of researchable and non researchable problems (10 marks)
 - b. Enumerate the Procedures for Problem Selection in research (10 marks)
 - c. Explain the meaning of research problem. (10 marks)
2. Explain the term hypothesis and mention five (5) major reasons why hypothesis is important in research (10 marks)
 - b. Discuss how T test and F test can be used in agricultural research (10 marks)
3. Enumerate four (4) important advantages and four (4) limitations to hypothesis testing. (8 marks)
 - b. Discuss four (4) types of Research Design (12 marks)
4. List four (4) factors that affect the level of significance in any agricultural research analysis. (4 marks)
 - b. Explain the strength of the need for research design in a successful research experiment (16 marks)