



NATIONAL OPEN UNIVERSITY OF NIGERIA
FACULTY OF AGRICULTURAL SCIENCES
DEPARTMENT OF CROP AND SOIL SCIENCES
2025_1 EXAMINATION

COURSE TITLE: AGRICULTURAL STATISTICS AND DATA PROCESSING
COURSE CODE: AGR 302

TIME: 2 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 explain the following:
 - i. Sampling error. ii. Non-sampling error (10 marks)
 - b. Below is yield data of Cowpea from 10 equal plots.

Plot No.	1	2	3	4	5	6	7	8	9	10
Yield (in kg.)	60	40	50	45	60	55	65	50	65	55

If the area of each plot is 242 square yards, find the average yield per acre? (10 marks)

c. What is the difference between Real time processing and Batch processing (10 marks)
2. Enumerate five (5) key principles in designing a Questionnaire? (5 marks)
b. Describe the following procedures in Field experimentation, collection and processing of data
 - i. Replication. ii. Field experimentation practices
 - iii. Literature review (15 marks)
3. Write short notes on the following methods of data collection (20 marks)
 - i. Systematic sampling
 - ii. Stratified sampling
 - iii. Random sampling
 - iv. Convenience sampling
4. Enumerate and explain six (6) types of Correlation (18 marks)
b. Mention two ways that spurious correlation can arise? (2 marks)