



NATIONAL OPEN UNIVERSITY OF NIGERIA  
FACULTY OF AGRICULTURAL SCIENCES  
DEPARTMENT OF CROP AND SOIL SCIENCE  
2024 1 EXAMINATION

**COURSE TITLE: AGRICULTURAL STATISTICS AND DATA PROCESSING (2CU)**

**COURSE CODE: AGR 302**

**TOTAL SCORE: 70 MARKS**

**INSTRUCTION: Answer 3 questions in all**

**Question 1 is compulsory (30 marks) and any other TWO questions (20 marks each)**

**TIME ALLOWED: 2 ½ Hours**

1a. Two genotypes of corn namely Oba super and N S-1 cobs were weighed at physiological maturity. Below is the data collected.

Maize genotype	Oba super (grams)	N S-1(grams)
1	210	100
2	215	110
3	205	112
4	220	180
5	215	100
6	215	150
7	220	160
8	230	104
9	204	116
10	200	102
11	205	100
12	200	110
13	260	108
14	280	109
15	200	170

a. Calculate the Mean, Median and Modal value for both corn genotypes. **12mks**

b. What is the Range of both corn genotypes. (**6 mks**) c. Outline the causes of experimental error and state how it can be reduced when planning and performing an experiment. (12 marks)

2. a. Define propability and mention two applications. (5 marks) b. Explain the following terms that are commonly used in propability: i experiment ii.out come iii.sample space iv.events. (8 marks)

c. State the three(3) types of propability. (3 marks) d. Define descriptive statistics (4 marks)

3 a. Explain how data distribution can be organized in the following ways: i. table construcion ii. bar graph iii. pie chart iv. line graph. (11 marks) b. Briefly discuss the following under Methods of data collection. i. Questionnaire Design ii. Systematic Sampling iii. Random sampling (**9 marks**)