



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

2025_2 EXAMINATIONS

COURSE TITLE: AGRICULTURAL STATISTICS AND DATA PROCESSING

COURSE CODE: AGR 302

TOTAL SCORE: 70 MARKS

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

QUESTIONS

1. The data below is that of rain fall (mm) in two rainy months June and September in a 1999 at Abeokuta Agricultural Research Station.

10, 15, 9, 8, 13, 0, 7, 12, 22, 15, 1, 35, 40, 38, 26, 20, 0, 5, 19, 14, 13, 6,
13, 18, 17, 24, 21, 29, 32, 3, 10, 13, 6, 5, 8, 9, 1, 3, 4, 13, 11, 5, 24, 15,

Find the Mean, Median and mode for the above set of data. (15 marks)

b. Differentiate between:

- i. One tailed and two tailed tests. ii. Type I error and Type II error
(15 marks)

2. Highlight two (2) Types of Statistical Inference and state when they are used (5 marks)

b. Briefly explain the classes of variables that exist (15 marks)

3. Data was collected from 75 sorghum plants at 7 weeks after planting. The plant height (in inches) was recorded below.

17, 8, 23, 24, 26, 13, 31, 16, 14, 35,
6, 11, 12, 11, 15, 21, 10, 4, 3, 19, 35,

36, 19, 40, 28, 17, 12, 2, 27, 31, 11, 21,

16, 34, 39, 1, 7, 12, 13, 10, 6, 21, 24, 22,

26, 28, 17, 6, 5, 15, 11, 16, 28, 4, 3, 19, 27,

35, 37, 14, 2, 9, 8, 16, 13, 22, 8, 26, 13, 12, 16, 14, 27, 31, 6.

Prepare a frequency table showing the class, tally and frequency. (Assume the number of groups is 10) (15 marks)

b. Enumerate five (5) Properties of a Normal Curve (5marks)

4. Briefly explain Sampling error (6 marks)

b. Write concisely on Binomial Distribution is (14 marks)