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NATIONAL OPEN UNIVERSITY OF NIGERIA SCHOOL OF AGRICULTURAL SCIENCES SEPTEMBER, 2020_1

COURSE CODE: AGR 302

COURSE TITLE: AGRICULTURAL STATISTICS AND DATA PROCESSING

INSTRUCTIONS: ANSWER FOUR (4) QUESTIONS IN ALL. QUESTION 1 IS COMPULSORY WITH 25 MARKS AND

ANY OTHER THREE (3) QUESTIONS WITH 15MARKS EACH

TIME ALLOWED: 2HOURS

CREDIT UNIT: 2 QUESTIONS

> 1 Complete the table using the data collected from the plant height of 50 (fifty) stands of okra at 30 days.

70 72 72 72 72 73 73 74 74 74 75 75 75 75 75 76 76 76 76 76 76 77 76 76 76 76 76 77 77 77 77 77 77 77 77 77 78 78 78 78 78 78 79 80 80 80 81 81

Class limits	Tally	Frequency	Cumulative	Relative
			Frequency	Frequency
70	/	1	1	2

b.		late:

i. Range of the 50 okra stands

ii. Mode 25 marks

(10 marks)

- 2 Define the following concepts of Statistics:
 - i. Population
 - ii. Sample
 - iii. Random Sampling
 - iv. Qualitative variables
 - v. Qualitative variables

Discuss Classical probability

(5 marks) b.

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- 3 State three (3) reasons why construction of frequency distribution is important. (3 marks)
 - b. Describe a binomial distribution
 - i. 7!
 - ii. 10!
 - iii. 9!
 - iv. 5! (12 marks)

- Total 15 marks
- 4. Discuss the concept of Normal Distribution (11 marks)
 - b. When two (2) coins are tossed, what is the probability of?
 - i. 2 heads
 - ii. 2 tails
 - iii. 1 head and 1 tail (4 marks)
- Total 15 marks
- 5. Define descriptive statistics. (6 marks)
 - b. State four (4) purposes of graphing (4 marks)
 - c. List five (5) common measures of dispersion (5 marks)
- 6. What is the relationship between mean and standard deviation? (5 marks)

b. Two breeds of goat namely West African Dwarf and Red Sokoto were being weighed at three (3) weeks of age. Below is the data collected

Goat Breed	WAD (grams)	Sokoto (grams)
1	110	100
2	115	110
3	105	112
4	120	180
5	115	100
6	115	150
7	120	160
8	130	104
9	104	116
10	100	102
11	205	100
12	200	110
13	160	108
14	180	109
15	100	170

- a. Calculate the Mean, Median and Modal value for both fowl breeds (10 marks)
- 7. Describe Empirical Probability (5 marks)
 - b. State four reasons why replication is being carried out. (4 marks)
 - c. State six (6) types of correlation (6 marks)