



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

**EXAMINATION: 2021\_1 POP EXAMINATION**

**COURSE CODE: AGR 302**

**COURSE TITLE: AGRICULTURAL STATISTICS AND DATA PROCESSING**

**INSTRUCTIONS: ANSWER FOUR (3) QUESTIONS. QUESTION 1 IS COMPULSORY AND ANY OTHER TWO (2) QUESTIONS**

**QUESTIONS**

1 Differentiate between:

- i. Discrete and Continuous variable    ii. Population and sample    iii. Experiment and outcomes  
 iv. Median and mode (10 marks)

b. Classify the following variables (Continuous and Discrete):

- i) Weight of broiler chicken at 8 weeks    ii) Sex of day hold pullet chicks  
 iii) Pollens in cattle (whether a cow or bull has or does not have horn)  
 iv) Number of egg produced by chickens    v) Body length of goat  
 vi) Number of parities of a cow or goat or sheep    vii) Litter size    viii) Litter weight  
 ix) Staff strength on the poultry farm    x) Milk yield (10 marks)

c. Complete the table of probability below (when two coins are tossed):

Number of tails	Sequential event	Probability
0		
1		
2		
Total		

(10 marks)

2 Explain Binomial Distribution (10 marks)

b. The following is the distribution of heights of plants of a particular crop.

Height (inches)	35-39	40-44	45-49	50-54	55-59	60-64
No. of plants	12	20	15	29	9	3

Draw the (i) Histogram (ii) Frequency curve (10 marks)

- 3 Define standard deviation, range and mean deviation of a set of frequency and state one (1) merit of each. (10 marks)

b. Find the 'mean deviation and mode' for the following grouped distribution.

Class	3-7	7-11	11-15	15-19	19-23	23-27
Frequency	5	7	13	31	18	4

(10 marks)

- 4 State five (5) properties of a Normal Curve (5 marks)

b. Solve the following:

i. 15!

ii. 10!

iii. 7! (15 marks)