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NATIONAL OPEN UNIVERSITY OF NIGERIA

FACULTY OF AGRICULTURAL SCIENCES

DEPARTMENT OF AGRICULTURAL ECONOMICS AND EXTENSION

2021_POP EXAMINATION

Programme: Agricultural Extension and Management

Course Title: Statistics for Social Research

Course code: AEA501

Credit Unit: 3

Time Allowed: 2¹/₂ Hours

Instruction: Answer Any 4 Questions

Question 1

a Assume a set of numbers was given as 1, 3, 5, 7, 7, 7, 3, 4, 5, 3, 4, 7, 10, 9, 10, 8, 9, 7, 3 and 4 (n = 20)

Calculate;

- (i) The Arithmetic mean of the set of numbers 5 marks
- (ii) The Mode of the set of numbers 3marks
- (iii) The Median of the set of numbers 2marks

b Discuss 3 properties of a normal distribution 4.5marks

c Explain 3 reasons why sampling of respondents is necessary in research 3marks

Question 2

a Define frequency polygon 2.5marks

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b Explain statistical terms: Mean, Median and Mode 6marks

c What are the many ways 10 students can be seated if 8 seats are available 4marks

d Discuss 2 major ways of classifying Statistics 5marks

Question 3

a Give the meaning of statistics 3marks

b Describe Class limits and Class intervals 3marks

c (i) What do you understand by the term hypothesis 3marks

(ii) Explain the types of hypotheses 4marks

D Discuss 3 importance of statistics in present day life 4.5marks

Question 4

a What is the difference between Relative frequency and cumulative frequency 4marks

b Explain the types of statistics 4marks

c Discuss Measures of Central Tendency 3. 5marks

d Discuss in detail Pie chart and Bar chart 6marks

Question 5

a Define the following terms:

- *i.* Standard deviation 2.5 marks
- ii. Describe the term Population in statistics 3 marks

b Explain Frequency distribution 3marks

c Study the following set of numbers: 1, 3, 5, 7, 7, 7, 3, 4, 5, 3, 4, 7, 10, 9, 10, 8,

9, 7, 3 and 4 (n=20)

Use the numbers to find:

i The First, Second, Third and Fourth quartile of the set of numbers 6marks ii The Range of the numbers 3 marks