



**NATIONAL OPEN UNIVERSITY OF NIGERIA**

**FACULTY OF AGRICULTURAL SCIENCES**

**DEPARTMENT OF AGRICULTURAL ECONOMICS AND EXTENSION**

**2021\_POP EXAMINATION <sup>1234</sup>**

**Programme: Agricultural Extension and Management**

**Course Title: Statistics for Social Research**

**Course code: AEA501**

**Credit Unit: 3**

**Time Allowed: 2 ½ Hours**

**Instruction: Answer Any 4 Questions**

Question 1

- a What is the meaning of Normal distribution? 2.5marks
- b Explain five importance of statistics in data analysis 5marks
- c What is the geometric mean of 3, 4, 5, 8, 11, 12, 14, and 16 10Marks

Question 2

- a Explain Primary data 5 Marks
- b Outline four Properties of a Normal Distribution 4marks
- c Find the mean and mode of the following set of numbers  
4,5,6,4,8,2,4,5 4.5marks

d Find:

- a)  $6!$  1 mark
- b)  $3!$  1 mark 4marks

Question 3

- a Distinguish between sample and population 6marks
- b Explain three reasons for sampling in research 7.5marks
- c Discuss the two types of statistics 4marks

Question 4

- a Give the meaning of statistics 2.5marks

b When there are 10 black balls and 15 white balls in a box, what is the Probability of picking a black ball and a white ball, if the two balls are picked simultaneously from the box 5marks

c With the following numbers 45,20, 30, 25, 15,25, 35,55,10,30,20,40 find the mean deviation 10marks

Question 5

a Give five common measures of dispersion 7.5marks

b Discuss four common limitations of statistics 6marks

c If the probability that a student A will travel during the next holiday is 0.4 and the probability that a student B will travel during the next holiday is 0.6. Find the probability that both students will travel during the next holiday 4marks