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## NATIONAL OPEN UNIVERSITY OF NIGERIA FACULTY OF AGRICULTURAL SCIENCES 2023\_1 POP EXAMINATION...

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Programme: Agricultural Extension and Management Course Code: AEM 772 Course Title: Research Methods and Statistics Credit Unit: 2 Total Score: 70 Marks Time Allowed: 2 Hours Instruction: Answer any three (3) Questions

- 1a. Justify the meaning of research  $(7^{1}/_{2}marks)$
- b. State the purpose of conducting research  $(1^{1}/_{2}marks)$
- c. Identify ten (10) characteristics of a research problem (15marks).

2a Explain why researchers adopt the use of sample (5marks)

- b. Write short notes on the following:
- i. Sample (2marks)
- ii. Statistic (2marks)
- iii. Sampling frame (4marks)
- iv. Probability (4marks)
- v. Parameter (6marks)
- 3. Explain the following:
- a. Positively skewed distribution (5marks)
- b. Negatively skewed distribution (4marks)
- c. Normal distribution (14marks)

4a. Provide an explanation to the meaning questionnaire (8marks)

b. Outline the guidelines on questionnaire design (15marks).

5a. In a sample of 100 farmers, 60 of the farmers were female while 40 were male. Assume their knowledge level to be 70% and 80% male and female respectively, calculate the average knowledge of the farmer (**6marks**).

b. Provide an explanation to the meaning of Inferential Statistics **and** Null hypothesis. In each case, support your explanations with six instances (**12marks**)

c. Identify five (5) of rules for constructing a table (5marks)