



NATIONAL OPEN UNIVERSITY OF NIGERIA
FACULTY OF AGRICULTURAL SCIENCES
DEPARTMENT OF AGRICULTURAL ECONOMICS AND ESTENSION
2025_2 EXAMINATIONS_

Programme: Agricultural Economics and Agribusiness

Course Code: AEM 772

Course Title: Research Methods and Statistics

Credit Unit: 2

Total Score: 70 Marks

Time Allowed: 3 Hours

Instruction: Answer question one (1) (25marks) and any other three (3) Questions (15marks) each.

- 1a Evaluate the meaning of research using **six (6marks)** instance
- b. Depending on the ways of collecting data, survey research can be classified into different categories. Identify these categories **(4marks)**
- c. Enumerate **five (5)** sources of secondary data known to you **(5marks)**
- d. Why do we take samples in a study? **(10marks)**
- e. Suggest the meaning of sampling frame **(5marks)**

- 2 Write short notes on the following
 - a Sampling error **(6marks)**
 - b Probability **(3marks)**
 - c. Statistic and parameter **(5marks)**
 - d. Universe or population **(6marks)**

3. Explain briefly
 - a. Stratified random sampling **(5marks)**
 - b. Cluster sampling **(5marks)**
 - c. Purposive sampling. **(5marks)**
 - d. Coefficient of correlation **(5marks)**

- 4a. Establish the relationship between quantitative and qualitative research **(10marks)**
- b. Explain using ten (10) instances guide line for questionnaire design. **(10marks)**

- 5a. What are the points to note during sampling. **(6marks)**
- b. Provide a detailed explanation to the meaning of statistical tools **(10marks)**
- c. Mention the four principal methods in which data can be presented **(4marks)**