



NATIONAL OPEN UNIVERSITY OF NIGERIA

**University Village, Nnamdi Azikwe Express Way, Plot 91,
Cadastral Zone,
Jabi, Abuja**

Faculty of Agricultural Sciences

FIRST SEMESTER EXAMINATION: June/July

Programme: Agricultural Extension and Management

Course Code: AEM 772

Course Title: Research Methods and Statistics

Credit Unit: 2

Time Allowed: 3 Hours

Instruction: Answer any four (4) Questions

i Explain the reasons for using sample **(10marks)**

ii. Define the following:

a. Sample **(2marks)**

b. Statistic **(2marks)**

c. Sampling frame **(4marks)**

d. Probability **(4marks)**

e. Parameter **(3marks)**

2. i. Identify the different sampling methods **(7marks)**.

ii. Explain briefly:

a. Stratified random sampling **(3marks)**

b. Cluster sampling **(5marks)**

c. Purposive sampling **(5marks)**.

iii. List the points to note during sampling **(5marks)**.

3. i. Explain the following:

a. Positively skewed distribution **(6marks)**

b. Negatively skewed distribution **(5marks)**

c. Normal distribution **(14marks)**

4. Explain in full what a questionnaire is and outline the guidelines on questionnaire design **(25marks)**

5. Explain vividly the meaning of research, state the characteristics of inadequate and how to handle such situations **(25marks)**.

6. i Explain the terms secondary and primary data **(20marks)**.

ii List the sources of secondary data**(5marks)**.