



**NATIONAL OPEN UNIVERSITY OF NIGERIA
FACULTY OF AGRICULTURAL SCIENCES
SECOND SEMESTER EXAMINATION
JANUARY/FEBRUARY, 2018**

Programme: Agricultural Extension and Management

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) and any other three (3) Questions

1. Explain the following:
 - a. Positively skewed distribution **(8marks)**
 - b. Negatively skewed distribution **(6marks)**
 - c. Normal distribution **(11marks)**
- 2a. i. Explain the terms secondary and primary data **(5marks)**
 - ii List the sources of secondary data **(2.5marks)**
- b. Explain the reasons for using sample **(2.5marks)**
- 3i. Define hypothesis and list the functions of hypothesis **(6marks)**
 - ii. Briefly discuss the different types of hypothesis **(4marks)**.
4. Explain in full what a questionnaire is and outline the guidelines on questionnaire design **(10marks)**
5. Briefly explain the relationship between Qualitative Research and Quantitative Research **(10marks)**
- 6a. Outline the variables to consider in selecting a research problem **(5marks)**.
- b. Identify the characteristics of a research problem **(5marks)**.