



NATIONAL OPEN UNIVERSITY OF NIGERIA
FACULTY OF AGRICULTURAL SCIENCES
DEPARTMENT OF AGRICULTURAL ECONOMICS AND EXTENSION
SEMESTER POP EXAMINATION, 2021_2 12345

Programme: Agricultural Extension and Management

Course Code: AEM 772

Course Title: Research Methods and Statistics

Credit Unit: 2

Total Score: 70 Marks

Time Allowed: 2Hours

Instruction: Answer any three (3) Questions only (70marks)

1a. Identify and discuss the various types of educational research (17marks)

b. Depending on the ways of collecting data, survey research can be classified into different categories. Identify four (4) of these categories in which survey research could be grouped (4marks)

c. Provide three (3) limitations of cross-cultural research (3marks)

2a. Whatever may be the type of research; generally five (5) types of data are generally collected in social science research. Recall these types of data that may be collected in social science research

b. Provide fifteen (15) essential steps that are required in process of conducting research (15marks)

c. Using three (3) instances, explain the meaning of research methodology (3marks)

3. Explain the following

a. Problem formulation (6marks)

b. Hypothesis Testing and Levels of Significance (6marks)

c. Moderator variable and control variable (5marks)

d. Experimental Designs (6marks)

4a. 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)

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