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## NATIONAL OPEN UNIVERSITY OF NIGERIA FACULTY OF AGRICULTURAL SCIENCES DEPARTMENT OF AGRICULTURAL ECONOMICS AND EXTENSION FIRST SEMESTER 2019 EXAMINATION

**Programme: Agricultural Extension and Management** 

**Course Code: AEM772** 

**Course Title: Research Methods and Statistics** 

Credit Unit: 2 Total Score: 70 Marks

Time Allowed: 2 ½ Hours

Instruction: Answer questions one (1) and any other three (3) Questions.

1ai. What is research?	(6marks)
ii. What is research designed for?	(2marks)
iii. Suggest the classification of research report based on target audience	(3marks)
iv. Outline the components of research that is aimed at evaluating on-going action programme	
or projects	(6marks).
b. What are the different steps to follow in order to draw the following charts and diagrams:	
i Bar charts	$(2^1/_2$ marks)
ii. Pie charts?	(3marks)
c. Suggest five rules to be followed in constructing a table	$(2^1/_2 \text{marks})$
2. Briefly explain the following;	
a. Inferential Statistics	(9 marks)
b. Null Hypothesis	(6 marks)
	(5 1 )
3a. Outline the points to note during sampling	(5marks)
b. Explain what you understand by;	/ <b>~</b> 1 \
i. Systematic sampling	(5marks)
ii. Double Sampling	(5marks)
4ai. Sampling method can be categorized into two groups. Mention these two groups (2marks).	
ii. List three types of probability sampling methods known to you	(3marks).
bi. Why do we use samples in research?	(5marks)
ii. What is data elicitation method?	(3marks)
iii. List types or sources of data	(1mark).
iv. Mention two (2) factors that play important role in sources of data	(1mark).
5a. Explain the meaning of questionnaire	(8marks)
b. Explain the meaning of question order as it is used in research	(7marks).
6a. Enumerate the steps used in ex-post facto design	(4marks)
b. Outline the imitations of Non-equivalent group	(6marks)
c. What do you understand by one-shot case study?	(5 marks)