NATIONAL OPEN UNIVERSITY OF NIGERIA
FACULTY OF AGRICULTURAL SCIENCES
DEPARTMENT OF AGRICULTURAL ECONOMICS AND EXTENSION
FIRST SEMESTER EXAMINATION, APRIL/MAY, 2019

Programme: Agricultural Extension and Management
Course Title: Statistics Research Methods in Extension
Course code: AEM501
Credit Unit: 3
Time Allowed: 3 Hours
INSTRUCTION:
Answer Compulsory question 1 (30 marks) and any 4 questions (10 marks each).

Question 1

(a)   Define research 3 mark
(b)   Why are researches designed in some cases?   3 marks
(c) Discuss:
     (i) Exploratory field studies   3 marks
     (ii) Hypothesis testing field studies.   3 marks
(d) Explain 3 factors that survey research is dependent upon?   6 marks
(e)Explain the limitations of cross-cultural research 3 marks
(f) Describe 4 general, types of data that are collected in social science research. 4 marks
(g) State 5 essential steps identified in the research process.   5 marks
        Total = 3 +3 + 6 + 6 +3 +4 + 5 = 30 marks

Question 2
   (a) Outline 4 points that should guide the researcher in problem identification? 4 marks
   (b) Discuss 2 types of errors made by researchers when testing hypothesis . 4 marks

Question 3
 (a). Give the scope in which selecting a topic for research depends   4 marks
(b) Explain 3 types of data collected in social research?   6 marks

Question 4
(a) Define hypothesis 2 marks
 (b) Discuss the 2 types of Hypotheses   4 marks
(c) In not less than four sentences explain the characteristics of research objectives 4 marks

Question 5
(a) Differentiate Moderator variable and Control variable   4 marks
(b) Give 3 benefits of a research design 3 marks
(c) Briefly explain laboratory experimental design   3 marks

Question 6
(a) Discuss 3 factors to be considered in the contents of a questionnaire. 6marks
(b) Explain 2 principal sources of data   4 marks

Question 7
   (a) Construct a bar chart using the following table 10 marks
Table 1

Frequency Distribution of Knowledge Scores of
Poultry Farmers on Improved Poultry Practices

Score interval	Tallies	Frequency
84-88	I	1
79-83	I	1
74-78	I	1
69-73	II	2
64-68	III	3
59-63	I	1
54-58	IIII	4
49-53	IIII	4
44-48	IИI I	6
39-43	IIII	4
34-38	II	2
29-33	II	2
24-28	II	2
19-23	III	3
14-18	I	1
9-13	I	1
	Sum	38