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FACULTY OF AGRICULTURAL SCIENCES SECOND SEMESTER EXAMINATION JANUARY/FEBRUARY, 2018

Programme: Agricultural Extension and Management

Course Title:STATISTICS AND RESEARCH METHODS IN EXTENSIONCourse Code:AEM 501Credit Unit:3Total Score:70 MarksTime Allowed:2½Hours

INSTRUCTION:

Answer Compulsory question 1 (30 marks) and any 4 questions (10 marks each).

1.	(a) What is a research? 3 marks
	(b) Explain the three (3) classifications of research. 6 marks
	(c) In what ways do exploratory, descriptive and causal research designs differ?
	6 marks
	(d) Briefly comment on simple random sampling and systematic sampling methods
	with examples. 5 marks
	(e) Explain Ex-post-facto-research with a clear example. 5 marks
	(f) Differentiate between Case and Ethnographic studies. 5 marks
2.	(a) Identify five (5) characteristics of research problems. 5 marks
	(b) Define hypothesis and list its types. 5 marks
3.	(a) What are intervening variables? 4 marks
	(b) Differentiate between continuous and discrete variables. 6 marks
4.	(a) What are the characteristics of inadequate response in questionnaire administration?
	5 marks
	(b) Define the followings:
	i. Sample
	ii. Statistic
	iii. Sample frame
	iv. Sampling error
	v. Probability 5 marks
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5.	(a) i. What is a pie chart? 2 mark
4	ii. What are the steps in drawing a pie chart? 2 marks
(b) If there are 85 students in a faculty, 20 students in Agric. Extension Department, 10

(b) If there are 85 students in a faculty, 20 students in Agric. Extension Department, 10 students in Agronomy, 35 students in Agric. Economics, 15 students in Animal Science and 5 students in Agric. Biology. Present this information on a bar chart. **6 marks**

- 6. (a) What is a report writing? **2 marks**
 - (b) Write short notes on the followings:

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- Introduction
- Methodology
- Discussion and interpretation 8 marks
- 7. (a) Write five (5) tips for constructing a bar. **5 marks**
 - (b) Write short notes on quartiles and mean deviation. **5 marks**