

NATIONAL OPEN UNIVERSITY OF NIGERIA FACULTY OF AGRICULTURAL SCIENCES DEPARTMENT OF CROP AND SOIL SCIENCES

EXAMINATION: POP EXAMINATION

COURSE TITLE: STATISTICS AND RESEARCH METHODOLOGY

COURSE CODE: AGR 501

TOTAL SCORE: 70 MARKS

TIME ALLOWED: 2hours 30 minutes

INSTRUCTION: Answer FOUR Questions in all. Overtical Lie commute and any three questions (10 marks each)		
Question 1 is compulsory (30marks) and any three questions (10 marks each) QUESTIONS		
1	a)	Differentiate between researchable and non-researchable problems. (12 marks)
	b)	List five major points to consider when selecting a research problem. (10 marks)
	c)	Name the three methods use for data collection in agricultural research. (8 marks)
		(30 marks)
2	a)	Give four reasons why hypothesis is important in research. (4 marks)
	b)	State two examples of each of parametric and non-parametric test. (6 marks)
3	a)	List the most frequently used parametric test for agricultural research. (6 marks)
	b)	Write short notes on the answers in 3a. (4 marks)
4	a)	List four factors that affect the level of significance. (6 marks)
	b)	States four major reasons why hypothesis is important in a research. (4 marks)
5	a)	Describe the two major classification of hypothesis (5 marks)
	b)	Construct a flow diagram for hypothesis testing. (5 marks)
6	a)	Give three advantages and of hypothesis testing. (5 marks)
	b)	Define research design and list types of research design. (5 marks)
7	a)	What are the major sources of error in Agricultural Research. (6 marks)
	b)	What is the concept development as a technique in developing a measurement tool. (4 marks)