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

EXAMINATION: 2021\_1 POP EXAMINATION 7856

**COURSE CODE: AGR501** 

COURSE TITLE: STATISTICS AND RESEARCH METHODOLOGY (3CU)

TIME: 2HRS

Instruction: Answer 4 questions in all; No. 1 is compulsory and carries 25 marks and any

other three questions carrying 15 marks each.

QUESTIO 1. (10 marks)		(10 marks) (5 marks)
2.	<ul><li>a. Define hypothesis</li><li>b. The major reasons why hypothesis is important in our research are</li><li>c. Differentiate between Null and Alternate hypothesis</li></ul>	(5 marks) (5 marks) (5 marks)
3.	a What are the most frequently used parametric tests for agricultural reb. Outline factors affecting the levels of significance	research (5 marks) (10 marks)
4.	a. What are the factors that determine the research design decisions b. Explain the four (4) types of Research Design you know	(7 marks) (8 marks)
5.	Explain any five (5) major concepts used in Research Designs	(15 marks)