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NATIONAL OPEN UNIVERSITY OF NIGERIA

Plot 91, Cadastral Zone, Nnamdi Azikiwe Express Way, Jabi - Abuja FACULTY OF MANAGEMENT SCIENCES
2021_2 EXAMINATION_

COURSE CODE: FMS 825

COURSE TITLE: Research Methodology

CREDIT UNIT: 3

INSTRUCTION: 1. Indicate your Matriculation Number clearly

2. Attempt question one (1) and any other three (3) questions; four

questions in all

3. Question one (1) is compulsory and carries 25 marks, while the other

questions carry 15 marks each.

4. Present all your points in a coherent and orderly Manner

TIME ALLOWED: 21/2 Hours

Question 1

The following are responses of individuals in a sample regarding the link between COVID-19 lockdown and job opportunities in Nigeria:

	Constrained job opportunities	Increased job opportunities
Strict COVID-19 lockdown	50	68
Eased lockdown	90	56

i. Formulate a good research topic and testable statement of hypothesis (null and alternative)

5marks

ii. Given the nature of the contingent table containing the responses, what type of technique will be most appropriate for testing the hypothesis?

2marks

iii. Using your answer in (i), test at five percent (5%) level whether a significant difference exist between the level of job opportunities between period of strict lockdown and easing period.

18mark

Question 2

- (a) A very critical stage in the research process is topic selection, and certain factors exist to make the process of topic selection less strenuous to students. Precisely identify and explain those factors.

 8 marks
- (b) What is a research hypothesis and where can it be derived?

7 marks

Ouestion 3:

Provide a succinct distinction of each of the following paired words. Provide relevant examples in each case:

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- (a) Parametric and Non-Parametric Hypotheses
- (b) Probability and Non-Probability Sampling
- (c) Test of Independence and test of Homogeneity
- (d) Null Hypothesis and Alternate Hypothesis

15 marks

Question 4

Identify and explain the major elements and types of research design.

15 marks

Question 5

- (a) Differentiate between probability and non-probability sampling techniques, giving at least three examples of each.

 8 marks
- (b) Consider a population of size N = 680, with a sampling error of 5 percent. Using the Taro Yameni's sample size determination technique, you are required to estimate the sample from this finite population. 7 marks