



**NATIONAL OPEN UNIVERSITY OF NIGERIA**  
Plot 91, Cadastral Zone, Nnamdi Azikiwe Express Way, Jabi - Abuja  
**FACULTY OF MANAGEMENT SCIENCES**  
**2022\_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: 2½ Hours**

**Question 1**

- (a) State the operational meaning of a variable; and from the sentence below, identify the different types of variables contained therein.

15 marks

*Impact of COVID-19-induced working-from-home policy on employee productivity in Nigeria*

- (b) Identify and clearly explain the four basic operations that describe the nature and order of relationship between two phenomena in a research process.

10 marks

**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

**Question 3:**

- (a) Succinctly differentiate between an internal proposal and an external proposal.

8 marks

- (b) Highlight the common budget elements/heads in a typical research proposal.

7marks

**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**