



**NATIONAL OPEN UNIVERSITY OF NIGERIA**  
**14/16 AHMADU BELLO WAY, VICTORIA ISLAND, LAGOS**  
**SCHOOL OF SCIENCE AND TECHNOLOGY**  
**OCTOBER 2013 EXAMINATION**

**Course Code: BUS 825**

**Credit Units: 2-Credit**

**Course Title: Research Design & Methodology**

**Time Allowed: 2 HOURS**

**Instructions:** 1. Attempt question number one (1) and any other two (2).  
2. Question number 1 is compulsory and carries 30 marks while the other 2 questions carry 20 marks each.  
3. Present all your points in coherent and orderly manner.

**Questions**

1. (a) Itemize any five (5) problems of research in developing countries and discuss them.  
(b) Give a pictorial representation of the difference between population and sample.  
(c) Mention and explain any five sources of a Research topic.
2. (a) Consider a population size of  $N = 500$ , with a sampling error of 5%. What will be the required sample size, using the famous Taro Yamane's formula?  
(b) Discuss any five (5) elements of a Research Design.  
(c). Give the formula of a sample size for Mean values.
3. (a) Explain the fundamental importance of validity in the choice of Research Design.  
(b) List and explain briefly types of Research Validity.

(c) Itemize types of Research Design you have studied.

4. (a) Examine the following Research concepts

- i. Variables
- ii. Hypotheses

(b) Highlight the difference between **constant** and **variable** in a Research Process.

(c) List three characteristics of a Researchable Hypothesis.

5. (a) How does internal Research proposal differ from an external Research proposal?

(b) Enumerate the activities necessary in a scientific Research Process.

Explain why they are important.

(c) Why is it advisable for a Research to embrace Research ethics?