

**NATIONAL OPEN UNIVERSITY OF NIGERIA**

**University Village, Plot 91, Cadastral Zone, NnamdiAzikiwe Express Way, Jabi, Abuja**

**FACULTY OF SCIENCES**

**DEPARTMENT OF COMPUTER SCIENCE**

JULY 2017 EXAMINATION

**DAM363: ECONOMIC STATISTICS**

**TIME ALLOWED: 3Hours**

**INSTRUCTION(S): Attempt any Four (4) questions**

**Question 1**

1. List and discuss any eight (8) methods of sampling that you know- **12.5 marks**
2. Data for research can be divided into Qualitative or Quantitative. List and discuss the subdivisions of Qualitative and Quantitative data.**– 7 marks**

**Question 2**

1. Using your knowledge of statistics, discuss the different techniques you would adopt to collect your primary data **- 8 marks** -
2. State any eight (8) features of the “measure widely used in statistics as a measure of spread” **- 9.5 marks**

**Question 3** - **17.5 marks**

A bag contains 10 white balls and 15 black balls. Two balls are drawn in

succession (a) with replacement (b) without replacement.

What are theprobabilities that;

1. both are black
2. the second is black given that the first is white.
3. both are of different colours
4. the first ball is black and the second ball is white

**Question 4**

1. Enumerate the steps needed in hypothesis testing **- 9 marks**
2. Discuss the types of errors that can be encountered in hypothesis testing

**– 6 marks**

1. Determine how many tail test this is : H1:  **2.5 marks**

**Question 5**

1. Discuss the concept of purchasing power theory as a theoretical concept **- 9.5 marks**
2. Briefly discuss the factors that you need to construct the human development index

**– 8 marks**