



ELIZADE UNIVERSITY,
ILARA-MOKIN,
ONDO STATE

FACULTY: Humanities Social and Management Sciences
DEPARTMENT: ACCOUNTING AND FINANCE
SECOND SEMESTER EXAMINATIONS
2013/2014 ACADEMIC SESSION

COURSE CODE: BST 102

COURSE TITLE: INTRODUCTION TO STATISTICS

DURATION: 2 hours 30 mins

A handwritten signature in black ink, enclosed in a rectangular box. The signature is stylized and appears to be 'A. O. Oluwalana'.

HOD's SIGNATURE

General Instructions:

1. Answer any four (4) questions
2. Write your matriculation number in the space provided
3. Credit will be given for good English, legibility, explanation and orderly presentation
4. All the six questions carry 15 marks each

MATRICULATION NO: _____

- 1 With the aid of good illustrative examples, distinguish clearly between the following pairs of statistical concepts
- Descriptive and Inferential statistics
 - Type 1 error and Type 2 error
 - Sample space and An event
 - Ratio scale and Interval scale
 - Parametric estimate and Statistical estimate
 - Qualitative data and Quantitative data
 - Primary data and Secondary data
 - Statistics and Probability
 - Correlation and Regression
 - Raw data and Array
- 2
- For what reasons do researchers study a sample rather than a population?
 - Explain any five (5) sampling techniques or methods known to you.
- 3 Given the following data on monthly rent for 200 houses of a particular type which is arranged into a frequency distribution as shown in the table below.

Monthly rent in naira (Class interval)	Number of Houses
8 -12	12
13 -17	26
18 -22	45
23- 27	60
28 -32	37
33 -37	13
38 -42	5
43 -47	2
Total	200

Required:

- Calculate the arithmetic mean
- Calculate the median
- Draw a histogram and explain whether it is normally distributed or not.
- Draw a frequency polygon
- Draw a cumulative frequency polygon (Ogive)

Note: You will save time if you use same diagram to answer c and d