

SCHOOL OF NATURAL AND APPLIED SCIENCES  
DEPARTMENT OF GEOGRAPHY

FIRST SEMESTER UNDERGRADUTE EXAMINATION 2013/2014 SESSION

COURSE CODE: GRY 222 (3 Units)

COURSE TITLE: ELEMENTARY STATISTICS FOR GEOGRAPHERS I

INSTRUCTION: Answer any four (4) questions of your choice. Credit would be awarded for use of illustration and relevant examples

Time allowed 2 1/2 hours

1. The data below is the frequency distribution of Artisans financially assisted in 15 wards of a Local government in Niger state.

Assisted Artisan(x) 1 2 4 7 10 13 14 16

Wards (f): 1 2 3 3 2 1 1 2

Using the data provided above, calculate the following:

- (i) The mean deviation      (ii) the standard deviation

2. a. Enumerate and explain the various types of data Classification  
b. List and explain the features of a table  
c. List four rules that must be followed for a table to be well tabulated
3. Prepare an ungrouped frequency distribution of the following data:

20	22	30	34	36	55	50	61
21	23	32	35	43	50	50	50
20	24	30	30	50	61	50	50
21	27	30	30	50	60	61	61

Using the data in your frequency distribution table, compute:

- a. The range  
b. The variance  
c. The standard deviation
4. Four residential buildings each were randomly selected in Kpakungu in Minna to determine room density. The following results were obtained 9, 5, 10 and 16.
- a. Using chi-square technique, examine whether the room density varies in size from one residential building to another;
- Note: Alpha level = 0.07      (df) 3 = 28.14
5. An agricultural research institute claimed that at least 85% of Cocoa trees planted by the institute survived. If 240 out of a sample of 300 cocoa trees planted by the institute survived, test the institute claim at 5% level of significance.
6. Distinguish clearly between any three of the following pairs of concepts giving a suitable example in each case:
- a. Descriptive and Inferential Statistics  
b. Class mark and Class boundaries  
c. Class size and Class interval  
d. Quantitative and Qualitative Statistics