OLABISI ONABANJO UNIVERSITY, AGO-IWOYE
FACULTY OF SOCIAL AND MANAGEMENT SCIENCES
DEPARTMENT OF GEOGRAPHY AND REGIONAL PLANNING
2012/2013 SESSION
CONTINUOUS ASSESSMENT

Course Code: GRP 204/202
Course Title: QUANTITATIVE TECHNIQUE IN GEOGRAPHY, TRANSPORT AND REGIONAL PLANNING
Instruction: Answer ALL questions

1. Define quantitative technique and explain its role in your discipline.

2. What is Hypothesis? Outline and discuss the basic procedure of statistical hypothesis testing in your discipline.

3. The average age expected of a driver in a particular transport organization is 25 years. A sample of 15 drivers in the organization revealed the following ages:

   29, 24, 25, 23, 22, 26, 26,
   25, 27, 28, 23, 24, 24, 25, 27

   Using student 't' test, determine whether the average age of the drivers is significantly different from the expected average.

4. Given the following data:

Y	20	24	26	20	29	32	28	37	40	37
X	15	18	18	23	21	23	26	28	32	37

   (i) Obtain a correlation coefficient of the data using pearson product moment correlation technique.
   (ii) Test the significance of correlation obtained.
   (iii) Obtain simple linear Regression of Variables Y and X
   (iv) Using your regression model, obtain the value of Y when X is 50
   (v) Discuss the assumptions of simple linear Regression Model.

5. A Geography student conducted a solid waste survey of the city of Ijebu-Ode in Ogun State. He found that the distribution of waste dumps among quadrats into which the city is divided is as follows:

Waste dumps per quadrat	0	1	2	3	4
Frequency	58	36	12	2	1

   Using appropriate analytical technique determine the distribution pattern of the waste dumps in the city.