FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA SCHOOL OF NATURAL AND APPLIED SCIENCES DEPARTMENT OF GEOGRAPHY

FIRST SEMESTER 2012/2013 SESSION UNDERGRADUATE EXAMINATION

COURSE CODE:

GRY 313 (2units)

COURSE TITLE:

Advanced Statistics for Geographers

INSTRUCTION:

Answer question one and any other Two

TIME ALLOWED:

2hrs

1. Using the table below, attempt an analysis of the association between the mode of journey to work and income level using the chi-square

Transport	< 5000	5000-6999	7000-8999	9000-above
Train	11	14	22	28
Car	10	26	30	32
Bus	16	20	11	17
Others	20	11	12	13

Alpha level=0.05 (df) 9=16.92

- 2. From the map provided, compute the following:
 - Attempt ordering the stream in the basin
 - b. Compute Bifurcation ratio.
 - c. Determine the streams in the second order
 - 3. Enumerate and explain the procedure for testing for significance level
- 4. Write short notes on the following:
 - a. Parametric and non parametric test
 - b.Population and Sampling.
 - c.Concave and Convex Slopes.

 $5.~{\rm A}$ surveyor came up with the following measurement after a field survey of an observed spatial distribution patterns for an area of $36{\rm cm}^2$

3.41 3.41 0.60 0.61 10.23 0.23 0.30 0.70 4.34 1.72 3.52 1.82 2.12 3.14 2.71 0.62

Using the nearest neighbor analysis technique

- a. Calculated Rn using the above data
- b. Explain the interpretation of the distribution pattern

