

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

FIRST SEMESTER 2013/2014 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	19	28	36	40
Car	12	13	45	48
Bus	31	20	11	6
Others	20	11	9	8

Alpha level= 0.05, (df) 9=16.92

2. a. What is sampling?
 b. Differentiate with concrete examples the difference between population and sampling
 c. Discuss why sample is often preferred to the entire population.
3. Enumerate and explain the procedure for testing for significance level
4. A surveyor came up with the following measurement after a field survey of an observed spatial distribution patterns for an area of 36cm²

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.
5. From a survey carried out in certain part of an African country to find out the acceptability of Military rule in Africa, 282 out of 500 people interviewed opposed Military rule. Test the hypothesis at 5% level that 50% of Africans support Military in Africa.