FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA
SCHOOL OF SCIENCE AND SCIENCE EDUCATION
DEPARTMENT OF GEOGRAPHY

FIRST SEMESTER 2011/2012 SESSION UNDERGRADUATE EXAMINATION

COURSE CODE: GRY 417P
COURSE TITLE: Advanced Quantitative Techniques
INSTRUCTIONS: You **MUST** answer question **6** and any other **3** questions (Four questions in all). Credit will be given for the use of appropriate illustrations and specific examples

Time allowed: 2hrs 30mins.

1. (a) Distinguish between the following terms:
   (i) Descriptive and Inferential Statistics
   (ii) Parametric and non-parametric Statistics
   (b) Hypothesis testing is a rigorous activity. Discuss the steps involved in hypothesis Testing
   (c) Illustrate with examples, the difference between directional (one-tailed) or non-directional (two-tailed) hypothesis
   (d) Distinguish between Type I and Type II errors
   (e) Under what condition may the Null hypothesis be rejected. (9mks)

2. (a) State the steps required in lauching a Microsoft Excel Package
   (b) State the steps required in creating charts in Excel.
   (c) Explain briefly the following as used in Excel worksheet
   (i) Rows (ii) Columns (iii) Cells
   (d) Write out the formula required to sum the contents of Cell A1 to Cell A 50 (9mks)

3. Three samples of nine year old boys are selected from a grade school for the purpose of Testing physical training methods. Sample I was a control group and receive no special training. Sample II had 1hour of work a day. Sample III had 30 minutes daily. At the end of two weeks, physical fitness test was administered to all groups, their scores are below.

Sample I	Sample II	Sample III
10	10	7
11	9	9
9	5	6
6	6	5
8	8	3
7	7	2

   (a) Is there any difference in the mean of the samples? (9mks)