

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

FIRST SEMESTER 2013/2014 SESSION UNDERGRADUATE EXAMINATION

COURSE CODE: GRY213P (3 units)

COURSE TITLE: Computer Application in Geography

INSTRUCTIONS: Answer Question one (1) and any other 2 questions of your choice. Credit will be given for the use of specific examples and appropriate diagrams.

TIME ALLOWED: 2 Hours

1. Describe in detail the steps involved in generating digital elevation model of FUT Minna, Bosso Campus from sample GPS points, and discuss using one example how you can use the model in geographical studies. (20MKS)
2. a. Differentiate between the different programming languages. (6MKS)
b. From table 1.0 below, use a simple basic programme to compute; Mean and Total. Show your formulae clearly. (4MKS)

Table 1.0

S/N	STATIONS	VARIABLES				
1	STATION A	PRESSURE(mmHg)	TEMP($^{\circ}$ C)	RAINFALL(mm)	TOTAL	MEAN
2	STATION B	87	35	88		
3	STATION C	67	30	90		
4	STATION D	60	25	50		
5	STATION E	70	40	48		

3. a. What is a database? (3MKS)
b. Discuss the different types of Database Management Systems (DBMS) (7MKS)
4. Discuss the two "WARES" necessary for the proper running of a computer system. (10MKS)
5. Digital computers are in different shapes, sizes, and weights and thus perform different sorts of functions from one another; Expatiate. (10MKS)