

**DEPARTMENT OF GEOGRAPY  
FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA  
FIRST SEMESTER EXAMINATION, 2010/2011 SESSION**

**GRY 211P: INTRODUCTORY CARTOGRAPHY**

**TIME: 2hrs 30mins**

**INSTRUCTION: Answer any FOUR (4) questions, credit will be given for using accurate diagram and illustration where necessary.**

1. State clearly and explain the procedures involved in rectangular grid reference system.
2. Describe three major classes of map symbols and state clearly the important variables in each class.
3. (a) What is map production?  
(b) List six major elements of a map and explain any four of them.
4. (a) State the major ways in which map artwork can be prepared.  
(b) Explain five major qualities of a drawing surface.
5. (a) List four hardware components used in cartography  
(b) Explain six advantages that automation has brought to map making.
6. State two major types of maps and explain each with specific examples.