

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

**FIRST SEMESTER 2012/2013 SESSION UNDERGRADUATE EXAMINATION**

**COURSE CODE:** GRY 215(2 units)

**COURSE TITLE :** Atmospheric Processes, Weather and Climate

**INSTRUCTIONS:** Answer **Three** questions .Credit will be given for the use of appropriate illustrations and specific examples

**Time allowed: 2hrs**

1. (a) Discuss a typical weather associated with the Inter-tropical Discontinuity (ITD) over West Africa.
  
2. Write short notes on any **FOUR** of the following
  - (i) Harmattan Haze
  - (ii) Line Squall
  - (iii) Monsoon
  - (iv) Little Dry Season (LDS)
  - (v) Trade winds
  - (vi) Land and Sea Breeze
  
3. (a) State three of the requirements for cloud formation  
b) Write a simplified weather station model using appropriate symbols and explain each of the symbols  
(a) Discuss the major types of clouds and the precipitation forms associated with them.
  
4. (a) Hurricanes undergo **Four** stages before maturity. Explain in detail each of the stages.  
(b) Categorise the various scales in the Fujita Damage scale and state the basis for each category.
  
5. (a) Discuss the relevance of a weather station in monitoring the weather.  
(b) Make a sketch of the Stevenson Screen and name the instruments housed in it.  
(c) Identify **Five** weather variables, the Instruments used in measuring them and the various units of measurement.