

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

**FIRST SEMESTER EXAMINATION 2012/2013 SESSION**

**COURSE: MET 315 – SYNOPTIC METEOROLOGY**

**Time Allowed: 2 Hours**

1. Outline and discuss the condition that must be fulfilled before froto genesis will occurs.
2. Write a brief essay on thunderstorm.
- 3.a. Explain the following according to their occurrence: **airmass**, **air front**, and the **occluded front**.
- b. Explain cold airmass and warm airmass.
4. Weather system can be classified in many categories according to their space and time scale. Expatiate
5. With the aid of a diagram, explain Tropical Cyclone.
6. Write short notes on any three the following:
  - I. Easterly waves
  - II. Monsoon depression
  - III. ITCZ
  - IV. Surface Discontinuity / Fronts.

**Good Luck!!!**