

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

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

**COURSE CODE:** MET 326

**COURSE TITLE:** Atmospheric Boundary Layer

**INSTRUCTIONS:** Answer any 4 questions. Credit will be given for the use of specific examples and relevant illustrations.

**TIME ALLOWED:** 2½ Hours

1. Give a working definition of Atmospheric Boundary Layer and with the aid of well-labeled diagram, describe the structure of the Atmospheric Boundary Layer.
2. Give a descriptive explanation of cloud types and the processes involved in their formation within the Troposphere.
3. Analyse the pattern of convection, circulation and deflection of air within the Tropics.
4. Give explanatory account of the ideals and principles behind AGENDA 21 of 1992:
  - (a) Differences between cold and warm front
  - (b) Convictional Rainfall
  - (c) Jet Streams
5. With the aid of a sketch diagram, describe the structure of the Atmosphere and give a detailed explanation of the Troposphere.
6. With the aid of a good diagram, account for the distribution of Atmospheric Pressure over the earth surface.