## FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA SCHOOL OF PHYSICAL SCIENCES DEPARTMENT OF GEOGRAPHY

## SECOND SEMESTER 2014/2015 SESSION UNDERGRADUATE EXAMINATIONS

**COURSE CODE: MET 326** 

COURSE TITLE: ATMOSPHERIC BOUNDARY LAYER

INSTRUCTIONS: ANSWER ANY FOUR (4) QUESTIONS OF YOUR CHOICE

## TIME ALLOWED: 3 Hours

- 1. With the aid of a well labeled diagram, describe the Atmospheric Boundary Layer.
- Write explanatory note on the pattern of Convection and Atmospheric circulation within the Boundary Layer
- 3. Write explanatory note on any three of the following:
  - a) The Jet Stream
  - b) Wind generated turbulence
  - c) Factors governing the distribution of heat from the Sun
  - d) Evolution of Extra tropical Cyclones
- 4. With the aid of a good diagram, explain the global distribution of atmospheric pressure.
- 5. Account for the causes of Surface Wind Gradient within the Troposphere
- Give a descriptive explanation of cloud types and the processes involved in their formation within the Troposphere