

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

SECOND SEMESTER 2019/2020 SESSION UNDERGRADUATE EXAMINATION

COURSE CODE: GRY 364

COURSE TITLE: Atmospheric Boundary Layer (3 Units)

INSTRUCTION: Answer Any **Four (4)** Questions of your choice. Credit will be given for the use of specific examples and relevant illustrations.

TIME ALLOWED: 2:30 Minutes

1. With the aid of a good diagram, give detailed description of the Atmospheric Boundary Layer.
2. Write explanatory notes on the processes involved in the formation of clouds and their types within the Troposphere.
3. Explain the global distribution of atmospheric pressure.
4. Write explanatory notes on **any 3** the following:
 - i. Extratropical Cyclone
 - ii. Polar fronts and the Jetstream
 - iii. Convective Planetary Boundary Layer
 - iv. Cloud types
5. Account for the causes of Surface Wind Gradient within the Troposphere.
6. Give a detailed explanation of the processes involved in the formation of rainfall within the Tropics.