

**FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA
SCHOOL OF SCIENCE AND SCIENCE EDUCATION
DEPARTMENT OF GEOGRAPHY**

SECOND SEMESTER 2010/2011 SESSION UNDERGRADUATE EXAMINATION

COURSE CODE: MET 524 (2 Units)

COURSE TITLE: THERMODYNAMICS AND PRECIPITATION PROCESS

INSTRUCTIONS: Answer any four (4) questions

TIME ALLOWED: 2½ Hours

1. With reference to specific examples, discuss the significance of solar radiation in the tropics.
2. Outline and discuss the major differences between weather systems in the tropics and in extra-tropical areas?
3. a). What are tropical cyclones?
b) Describe their geographical and seasonal distributions.
4. Write an essay on thunderstorms in the Tropics
5. Describe with clear illustration the formation and characteristics of easterly waves and West African disturbance line (Lines quall).
6. Discuss the statement that, the tropical atmosphere is so charged with water vapors that any slight low level convergence will produce rain and squall.