

DEPARTMENT OF GEOGRAPHY
FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA
2ND SEMESTER EXAMINATION, 2013/2014 SESSION

COURSE CODE: MET 524P
COURSE TITLE: ADVANCED TOPICS ON TROPICAL METEOROLOGY
TIME: 2 1/2 Hours
INSTRUCTION: ANSWER ANY FOUR (4) QUESTIONS OF YOUR CHOICE

- 1) Draw and explain annual mean wind and pressure pattern from the equator to the poles. How does this pattern influence seasonal variation in the Tropics?
- 2) Describe the role of ITCZ/ITD migration in determining the Weather and Climate of Nigeria.
- 3) What are Tropical Cyclones? Describe the conditions favourable for their development and their spatial and temporal distribution in the Tropics.
- 4) Give brief explanatory notes on any six (6) of the following:
a) Jet stream b) Thunderstorms c) Monsoon Tropical Climate
d) Anticyclone e) Tropical Rainy Climate f) Tropical Semi-Arid Climate
g) Drought h) Tropical wet and dry Climate
- 5) Using suitable illustrations, describe the formation and characteristics of West African Line Squall
- 6) What is Desertification? Describe the problems and prospects of controlling Desertification processes in the Sahelian region of Nigeria.

GOOD LUCK