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

FIRST SEMESTER EXAMINATION 2009/2010 SESSION

COURSE CODE; MET 315

COURSE TITLE –SYNOPTIC CLIMATOLOGY

TIME ALLOWED: 2Hrs 30 Minutes

INSTRUCTIONS: Answer Question ONE and any other three questions. The use of relevant diagrams and illustration will be rewarded.

1. Write short notes on any four of the followings:-
 - a) Fohn or Chinook wind
 - b) Land and sea breezes
 - c) Inter Tropical Convergence Zone (ITCZ)
 - d) Cyclones and Anticyclones
 - e) Monsoon depressions

2. Examine the difficulties in the general pattern of air movement in the tropical atmosphere.

3. a, With the aid of an appropriate diagram describe the distribution of world pressure belts and planetary winds

b. Assess the various stages in the life cycle of a frontal depression.

4. a, Differentiate between Airmasses and fronts
b, Explain the source regions of airmass.

5. "Tropical disturbances can be classified into five categories according to their space and time scales". Expatiate

6. Discuss thermodynamic process as a mean of air mass modification.