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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 311

COURSE TITLE – General Circulation of the Atmosphere 1

TIME ALLOWED: 2Hrs 30 Minutes

INSTRUCTIONS: Answer any four questions. The use of relevant diagrams and illustration will be rewarded.

1. Using specific examples, differentiate between polar and subtropical jet streams and explain the relevance of jet stream in aviation.
2. Discuss the factors of general circulation of the atmosphere
3. Write short note on the following:-
 - a. Earth's angular momentum
 - b. The trade winds
 - c. The polar winds
 - d. Terrestrial radiation
 - e. Dew point temperature
4. Examine the contributions of "Eddy waves theory" in the atmosphere and refinement surface observations.
5. Describe the origin and characteristics of four (4) types of local winds
6. Explain why places along the coast of West Africa experience two periods of maximum rainfall in the year, whereas further North has one peak period of rainfall.