

FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA  
SCHOOL OF NATURAL AND APPLIED SCIENCES  
DEPARTMENT OF GEOGRAPHY

FIRST SEMESTER 2013/2014 SESSION UNDERGRADUATE EXAMINATION

COURSE CODE: MET 311

COURSE TITLE: GENERAL CIRCULATION OF THE ATMOSPHERE 1 (2units)

INSTRUCTION: Answer any Three questions

TIME ALLOWED: 2hrs

**The use of illustrative diagrams with specific and relevant examples will be rewarded.**

1. Describe the origin and characteristics of **any four (4)** types of local winds.
2. Discuss the role of winds and Atmospheric pressure in the general circulation of the atmosphere.
- 3 a. Explain the concept of Jet Stream
- b. Differentiate between the northern and subtropical polar jet stream.
- c. Enumerate and explain why northern polar jet stream is important in Aviation and Weather forecasting.
4. Assess the contributions of **any two** of the following in the Historical development of Meteorology:
  - a. Oishi Wasabaro ( b) Willey Post (c) Seilkopf.
5. Write short note on **any Three** of the following:
  - a. Pressure Gradient Force (b) Convergence and Divergence (c) Earth Angular Momentum (d) Terrestrial Temperature.