

FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA
SCHOOL OF PHYSICAL SCIENCES
DEPARTMENT OF GEOGRAPHY

FIRST SEMESTER 2015/2016 SESSION UNDERGRADUATE EXAMINATION

COURSE CODE: MET 311

COURSE TITLE: GENERAL CIRCULATION OF THE ATMOSPHERE 1

INSTRUCTION: Answer any Three questions

TIME ALLOWED: 2hrs 2units

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

1a. Define Jet Stream

b. Differentiate between the northern and subtropical polar jet streams.

c. Enumerate and explain why northern polar jet stream is important in Aviation and Weather forecasting.

2. Enumerate and discuss the surface components of the general pattern of atmospheric circulation.

3. Enumerate and explain factors that determine how much evaporation will take place at any particular place and time.

4. Identify and explain four basic processes in heating and cooling the atmosphere.

5. Describe the origin and characteristic of any four of these local winds.

(I) Fohn Wind (ii) Typhoon Wind (iii) Mistral Wind (iv) Tornadoes (v) Harmattan Wind