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

FIRST SEMESTER 2014/2015 SESSION UNDERGRADUATE EXAMINATION

COURSE CODE: MET 524

COURSE TITLE: ADVANCED TOPICS ON TROPICAL METEOROLOGY

INSTRUCTION: Answer any four questions TIME ALLOWED: 2hrs.30mins

- 1. Outline and discuss the major common characteristic use in distinguishing tropical region from the rest of the world.
- 2. (a) Describe how a microburst form
 - (b)Using appropriate diagram explain why is term wind shear often used in conjunction with a microburst.
- 3. (a). Mention the major mechanism that causes monsoon circulation
 - (b) Identify and discuss the characteristics of West African monsoon
 - (c) Explain the consequences of monsoon failure
- 4. The Hadley Circulation is one of the primary components of the large scale circulation in the tropics. Discuss
- 5. (a) Discuss the necessary conditions for the formation of tropical cyclone
 - (b) List and explain the environmental effects of wind shear on tropical cyclone
- 6. Using appropriate diagrams, write note on any three of the following;
- (a) Tropical depression
- (b) Tropical storm
- (c) Hurricane
- (d) Thunderstorm