

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

FIRST SEMESTER 2010/2011 SESSION UNDERGRADUATE EXAMINATION

**COURSE CODE:** MET 513

**COURSE TITLE:** Marine Climatology

**INSTRUCTIONS:** Answer any four (4) questions of your choice. Credit will be given for the use of specific examples and appropriate diagrams.

**TIME ALLOWED:** 3 hours.

1. a) What are the causes of upwelling?  
b) Briefly discuss the importance of upwelling in the fishing industry.
2. Discuss how tides can be predicted and used for electric power generation.
3. Discuss the view that the atmosphere that surrounds the earth is a dynamic entity.
4. With the aid of good illustrations, <sup>Explanation</sup> ~~how~~ does particle motion wave change with depth?
5. Discuss the forces that produce waves across the open sea.
6. Examine the major sources contributing to the atmospheric moisture

9/5/2011  
Ext. Examiner