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

FIRST SEMESTER 2010/2011 SESSION UNDERGRADUATE EXAMINATION

COURSE CODE: REM 511 (2 Units) COURSE TITLE: Marine and Coastal Environments INSTRUCTIONS: Answer any 4 questions

TIME ALLOWED: 21/2 Hours

- 1. Write on the sensor characteristics of any there (3) of the following satellites
 - (i) Meteosat.
 - (ii) American SeaStar/OrbView-2.
 - (iii) Marine Observation Satellite (MOS).
 - (iv) Chinese Feng Yun.
- 2. Describe and discuss the nature of transmittance and volume reflectance in water bodies to electromagnetic radiation.
- 3. Discuss how turbidity affects spatial reflectance near the water line around the coast.
- Explain the relevance of remote sensing data in sea surface temperature studies for environmental applications.
- 5. Using SAR and meteorological data, explain how the profile of the ocean bottom can be obtained near the coast.
- 6. Discuss how remotely-sensed data could be used for monitoring ice on sea surfaces.

SIJ201