

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

FIRST SEMESTER 2015/2016 SESSION UNDERGRADUATE EXAMINATION

COURSE CODE: REM 511 (3 Units)

COURSE TITLE: Marine and Coastal Environments

INSTRUCTIONS: Answer any 4 questions

TIME ALLOWED: 2½ Hours

1. Discuss the relationship between the concentration of visible pollutants in water and the related turbidities.
2. Explain how Sea Surface Temperature and Radar Altimeter data could be integrated in the studies of El Niño and La Niña episodes.
3. Describe and discuss how Synthetic Aperture Radar (SAR) image data could be used in bathymetry studies.
4. Explain the gap which Synthetic Aperture Radar (SAR) image data has been able to close between aerial photographic and other coarse resolution satellite images in the monitoring of sea ice in Temperate latitudes.
5. Discuss how remote sensing data could be used in monitoring and modelling changes in the concentration of algae and phytoplanktons in coastal locations.
6. Explain the differences between chlorophyll absorption and chlorophyll correlation used in the studies of coastal water pollution.