

FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA
SCHOOL OF NATURAL AND APPLIED SCIENCES
DEPARTMENT OF GEOGRAPHY

SECOND SEMESTER 2013/2014 SESSION UNDERGRADUATE EXAMINATION

COURSE CODE: REM320

COURSE TITLE: System II - RADAR

INSTRUCTIONS: Answer any 4 questions. Credit will be given for the use of specific examples and relevant illustrations.

TIME ALLOWED: 2½ Hours

1. Identify and describe the various types of radar systems and explain the operational principles of radar imaging system
2. Describe the unique features of Real Aperture Radar and examine its role in natural resource monitoring and management in the tropics.
3. Explain in detail system parameters that influence the backscatter coefficient
4. Using relevant examples, describe the fundamental advancement in the historical development of radar system
5. Describe radar viewing geometry and explain its effects on radar images
6. Explain the principle effects of landscape parameters on the backscatter coefficients