

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

SECOND SEMESTER 2012/2013 SESSION UNDERGRADUATE EXAMINATION

Course Title: Advance Topics on RADAR

Course code: REM 520

Instructions: Answer any four questions. Credit will be given for relevant illustrations and examples

Time allowed: 2 hours 30min

1. Discuss problems and prospects of air borne radar system applications to natural resource monitoring and management in Nigeria.
2. Describe Synthetic Aperture RADAR Interferometry and explain the major factors affecting the phase.
3. Explain the principles of radar polarimetry and describe its role in polarization response plot.
4. Give an explanatory account of the advantages and disadvantages of adopting Radargrammentary for resource management
5. Highlight and explain the basic techniques for digital radar image processing
6. With illustrations and examples, describe the factors that complicate radar image interpretation and analysis