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

SECOND SEMESTER 2012/2013 SESSION UNDERGRADUATE EXAMINATION

Course code: REM 320

Course Title: System II - RADAR

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

illustrations and examples

Time allowed: 21/2hours

- 1. With illustrations and examples, give an explanatory account of the principles and components of an imaging radar systems
- 2. Discuss the fundamental advancement in the historical development of imaging radar system
- 3. Compare and contrast the unique features of Real Aperture Radar and Synthetic Aperture Radar system
- 4. Describe the radar viewing geometry and explain its effects on radar images
- 5. Explain the effects of target interaction on a radar image and describe the factors that control radar energy / target interaction
- 6. Describe the following radar parameters:

i Resolution

ii Polarization

iii Incidence angle