# FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA

#### SCHOOL OF SCIENCE AND SCIENCE EDUCATION

#### DEPARTMENT OF GEOGRAPHY

## FIRST SEMESTER 2010/2011 SESSION UNDERGRADUATE EXAMINATION

# COURSE CODE: REM 411

## **COURSE TITLE:** Satellite meteorology

**INSTRUCTIONS**: Answer any three questions of your choice. Credit will be given for the use of specific examples and appropriate diagrams.

## TIME ALLOWED: 2 hours.

- 1. Discuss with specific reference to Nigeria the relevance of satellite technology to national development.
- 2. a. Describe briefly the types of meteorological satellites you know.b. distinguish between active and passive sensors
  - c. give three examples for each sensor you mentioned in [b] above.
- 3. Prepare a short explanatory notes on any four of the following:
  - a. visible imagery
  - b. ITCZ
  - c. infra red imagery
  - d. albedo
  - e. satellite payload -
  - f. monsoon circulation
- 4. Describe how the following cloud features on satellite imagery are helpful for weather forecasting:
  - a. brightness
  - b. pattern
  - c. structure
  - d. texture
  - e. shape
- 5. Explain the role of NARSDA in achieving sustainable development using satellite technology in Nigeria.

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