FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA

SCHOOL OF NATURAL AND APPLIED SCIENCES

DEPARTMENT OF GEOGRAPHY

FIRST SEMESTER 2013/2014 SESSION UNDERGRADUATE EXAMINATION

COURSE CODE:	REM 411P
COURSE TITLE:	SATELLITE METEOROLOGY
TIME:	2 Hours 30 Mins
INSTRUCTION:	ANSWER ANY (4) QUESTIONS OF YOUR CHOICE

- 1) a) What is Remote Sensing
 - b) Describe the Satellite Orbits.
 - c) Distinguish between Active and Passive Sensors
- 2) a) Define Satellite Meteorology.b) Using relevant illustrations, describe the Global Weather-observing Satellites.
- 3) a) Explain the Principles of Atmospheric Radiation.
 - b) Describe how Electro-magnetic radiation interacts with matter by way of reflection, absorption, transmission and scattering.
- Describe the General approach of estimating rainfall from remotely sensed data.
- 5) Discuss the usefulness of weather satellites in weather forecasting.
- 6) Prepare a treatise on METEOSAT Second Generation Satellite Missions.

GOOD LUCK