

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

SECOND SEMESTER 2013/2014 SESSION UNDERGRADUATE EXAMINATION

**COURSE CODE:** REM 522 (3 Units)

**COURSE TITLE:** Planetary Atmospheres

**INSTRUCTIONS:** INSTRUCTIONS: ANSWER ANY FOUR (4) QUESTIONS.

**CREDIT WILL BE GIVEN FOR RELEVANT ILLUSTRATIONS AND EXAMPLES**

**TIME ALLOWED:** 2½ Hours

1. Discuss the physical characteristics of the planet Jupiter, as observed by remote sensing platforms.
2. Discuss the composition of the different layers of the solar atmosphere.
3. Give an account of the proposed use nuclear energy for the future use of spacecraft propulsion and on-board instrumentation supplementary energy provision.
4. How are scientists thinking of modifying the planet Mars environment in order to serve as future space settlement?
5. Describe the different ways, the planet Mercury and the Earth's moon appear to be similar and different in terms of physical characteristics?
6. Discuss reasons why the use of Space has led to the phenomenon of space politics amongst the world superpowers.