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B.E. / B.Tech. (Full Time) DEGREE END SEMESTER EXAMINATIONS, NOV / DEC 2011

GEOINFORMATICS ENGINEERING BRANCH  
SEVENTH SEMESTER – (REGULATIONS 2004)

**GI 508 RS and GIS for earth science**

Time : 3 hr

Max Marks : 100

Answer ALL Questions

Part – A (10 x 2 = 20 Mark)

1. Define lithology.
2. List any five features that an aerial photo can provide for lithology map.
3. What is denudational landform?
4. List the benefits microwave data for geomorphology mapping over optical data.
5. List the types of folds.
6. Define drainage texture.
7. What is geophysical survey?
8. Write the importance of Ground Penetrating Radar in geophysical survey.
9. List the triggering factors for landslide?
10. Write the effect of climate change on droughts.

Part – B (5 x 16 = 80 Mark)

11. Discuss the lithological mapping using satellite remote sensing with case study. (16)
12. a. Explain the advantages and limitations of remote sensing techniques for preparing geomorphology map over conventional methods. (16)

OR

- b. Write the nature and their pattern configuration of Aeolian, Glacial and volcanic landforms. (16)
13. a. Discuss the digital technique of satellite image for structural analysis and mapping. (16)

OR

- b. Explain the steps to delineate the faults from aerial photo and satellite image with case study (16)
14. a. Discuss the types of geophysical surveys for subsurface explorations. (16)

(OR)

- b. i) How will you plan geophysical field surveys using satellite data? (10)
- ii) Write the importance of satellite data in geophysical surveys (6)

15. a. Explain the remote sensing and GIS applications to mineral explorations with case study. (16)

(OR)

b. Discuss the application of remote sensing and GIS for ground water studies especially in Tamil Nadu. (16)