

C 60534



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Name.....

Reg. No.....

**EIGHTH SEMESTER B.TECH. (ENGINEERING) DEGREE  
EXAMINATION, APRIL 2014**

(2009 Scheme)

CE/PTCE 09 804 L24 – REMOTE SENSING AND GIS

Time : Three Hours

Maximum : 70 Marks

**Part A**

*Answer all questions.*

1. (a) List out the components of remote sensing.
- (b) Discuss on reflectance.
- (c) Define the term resolution.
- (d) What is meant by GIS?
- (e) Discuss on FCC composites.

(5 × 2 = 10 marks)

**Part B**

*Answer any four full questions.*

2. Explain the significance of atmospheric windows.
3. Discuss on EMR interaction with water, soil and earth surface.
4. Differentiate between sun synchronous and geosynchronous satellites.
5. Differentiate between spatial and non-spatial maps.
6. Explain on image enhancement.
7. Explain on how GIS and remote sensing data are used for typical hazard mitigation.

(4 × 5 = 20 marks)

**Part C**

*Answer all questions.*

8. Explain in detail on black body radiation. Also add a short note on repeativity.

*Or*

Write short notes on : (a) Scattering of EMR ; (b) Synoptivity.

**Turn over**

9. Write short notes on : (a) Satellite sensors ; (b) Principle of thermal remote sensing.

*Or*

Write short notes on : (a) Multi Spectral scanning ; (b) Synthetic Aperture scanning.

10. Write short notes on : (a) Buffering ; (b) Rastar data.

*Or*

Write short notes on : (a) Overlaying ; (b) Printers and Plotters.

11. Explain the application of remote sensing and GIS in watershed management.

*Or*

Write short notes on : (a) Image classification ; (b) Visual interpretation.

(4 × 10 = 40 marks)