

Code No: D6301**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
M.TECH II - SEMESTER EXAMINATIONS, APRIL/MAY 2012****REMOTE SENSING AND GIS
(IMAGE PROCESSING)****Time: 3hours****Max. Marks: 60****Answer any five questions
All questions carry equal marks**

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1. Discuss about aerial remote sensing and satellite remote sensing and also list the advantages and limitations of them.
- 2.a) Explain about energy interaction in the atmosphere and atmosphere window.
b) Discuss the components of GIS.
- 3.a) What is meant by GPS coordinate system? Explain.
b) Discuss the following sources of spatial data
 - i) Air photos
 - ii) Field data.
- 4.a) Write brief notes on data analyzing operation in GIS.
b) Discuss any one of vector overlay methods.
5. Write brief notes on the following:
 - a) GIS for surface analysis
 - b) Shortest path problem
 - c) Cartographic outputs.
6. State various remote sensing applications and explain how flood plain mapping, coastal landforms can be done.
7. Discuss how water quality monitoring and mapping can be done by remote sensing.
8. Write short notes on the following:
 - a) Integrated watershed development
 - b) Fluvial landforms
 - c) Data recording methods in remote sensing.

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