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Code: 9D12105b

M.Tech I Semester Regular & Supplementary Examinations February 2016

GEOGRAPHICAL INFORMATION SYSTEMS

(Geotechnical Engineering)

(For students admitted in 2011, 2012, 2013, 2014 & 2015 only)

Time: 3 hours Max. Marks: 60

Answer any FIVE questions

All questions carry equal marks

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1 (a) Explain in detail about spectral reflectance of vegetation and water.
(b) Describe about the energy interaction with atmosphere.

2 (a) Differentiate between geo-synchronous and sun-synchronous satellites.
(b) What are the different types of sensors based on energy source?

3 Discuss in detail about the sources of geometric distortions and nature of corrections for various purposes.

4 (a) Differentiate between supervised and unsupervised classification.
(b) Identify two situations in which you would use an unsupervised classification.

5 (a) Explain in detail about the components of GIS.
(b) What do you mean by geospatial topology?

6 Elaborate about various data models in GIS.

7 Take an application of GIS for finding landslide hazard zones and explain the methods of analysis in detail.

8 How will you use GIS tools for the purpose of doing pollution modeling?

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