Code: R7410103

R07

B.Tech IV Year I Semester (R07) Supplementary Examinations, May 2013
REMOTE SENSING & GIS APPLICATIONS
(Civil Engineering)

Time: 3 hours   Max. Marks: 80

Answer any FIVE questions
All questions carry equal marks

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1. (a) Describe the field methods for establishing horizontal control.
   (b) An overlapping pair of vertical photos was exposed with a 152.4 mm focal length camera from a flying height of 1622 m above datum. Control point C has an elevation of 263 m above datum, and the parallax of its images on the steneopair is 86.3 mm. Calculate the air base.

2. Describe the various elements involved in remote sensing.

3. Describe the digital data analysis with special emphasis on preprocessing and classification.

4. Enumerate the components of GIS and describe them in detail.

5. Describe the various techniques used in data capture and data editing in GIS.

6. Describe in detail the vector data storage in GIS environment and its merits.

7. Explain the role of remote sensing and GIS in watershed management for sustainable development.

8. Describe the RS and GIS applications in drainage morphometry and inland water quality survey and management.

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