PVP 12

Code: CE7T2

IV B.Tech - I Semester – Regular / Supplementary Examinations – November 2016

REMOTE SENSING & GIS APPLICATIONS
(CIVIL ENGINEERING)

Duration: 3 hours Max. Marks: 70

Answer any FIVE questions. All questions carry equal marks

1. a) Define Stereoscopy. Explain the Stereoscopic method of Parallax Measurement. 8 M

   b) Explain the methods of provision of Ground Control and also explain their importance. 6 M

2. a) Define Remote Sensing and enumerate the process of Electromagnetic Remote Sensing. 8 M

   b) Discuss in detail about Energy Interaction with Earth Surface Features. 6 M

3. a) What is a Geometric correction? Explain different methods of Geometric Correction in detail. 7 M

   b) Distinguish between Supervised Classification and Unsupervised Classification. 7 M

4. a) Define GIS. Explain the Fundamental Operations of GIS. 7 M

b) Discuss in detail about a Theoretical Frame Work of GIS. 7 M

5. a) What are the data input and output devices used in GIS? 8 M

b) What is a feature based GIS Mapping? 6 M

6. a) Discuss various processes involved in Data Manipulation and Analysis. 8 M

b) Explain the process of Integrated Analysis of Spatial and Attributable Data. 6 M

7. a) Describe how Land Use and Land Cover plays a major role in Water Resources Project. 7 M

b) Discuss various parameters used for identification of suitable locations for Artificial Recharge Structures. 7 M

8. a) What is the role of RS and GIS in Traffic Management? 6 M

b) Explain the process of mapping of Urban Change Detection and Discuss its importance. 8 M