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Code No: CE1522

GEC-R14

III B.Tech I Semester Supplementary Examinations, July 2017

REMOTE SENSING AND GIS TECHNIQUES

(Open Elective-I)

Time: 3 Hours

Max. Marks: 60

Note: All Questions from **PART-A** are to be answered at one place.

Answer any **FOUR** questions from **PART-B**. All Questions carry equal marks

PART-A

6 × 2 = 12M

1. Define atmospheric windows.
2. Explain temporal resolution.
3. Explain supervised classification.
4. Explain the various components of GIS.
5. What are the factors affecting highway alignment.
6. Define pre processing.

PART-B

4 × 12 = 48M

1. a) Explain the concept of Remote Sensing. (4M)
b) Explain Stefan-Boltzmann displacement law. (8M)
2. a) What is sensor? Explain active and passive sensors. (6M)
b) Explain any two types of sensor platforms. (6M)
3. Define resolution and explain various types of resolutions used in remote sensing. (12M)
4. Discuss the various image enhancement techniques. (12M)
5. Explain raster data and vector data models? What are the advantages and disadvantages with raster data and vector data models? (12M)
6. Explain the applications of Remote Sensing and GIS in
a) Reservoir storage estimation. b) Land cover and land use. (12M)
