Code: CE7T2

IV B.Tech - I Semester – Regular/Supplementary Examinations
October - 2018

REMOTE SENSING AND GIS APPLICATIONS
(CIVIL ENGINEERING)

Duration: 3 hours   Max. Marks: 70

PART – A

Answer *all* the questions.   All questions carry equal marks
$$11 \times 2 = 22 \text{ M}$$

1.
   a) List out various elements in Remote Sensing.
   b) Explain the principle of Photogrammetry.
   c) What do you mean by pre-processing of digital image processing?
   d) What do you mean by Map Projection?
   e) Define GIS.
   f) Differentiate between Vector Data and Raster Data
   g) What do you mean by Geocoding?
   h) List out at least three analysis methods in GIS.
   i) Explain the term Land use/Land Cover in related to water resources.
   j) Explain the key role of RS & GIS in urban planning.
   k) How do you estimate the water depth using RS & GIS?

PART – B

Answer any ***THREE*** questions. All questions carry equal marks.

3 x 16 = 48 M

2. a) Explain the various satellite visual interpretation
   techniques.   8 M

   b) What is electromagnetic spectrum?   8 M

3. a) Explain the functions of GIS.   8 M

   b) What are the limitations of GIS?   8 M

4. What do you understand by spatial, thematic and
    temporal dimension of geographic data? Classify spatial
    entity.   16 M

5. Discuss the applications of remote sensing & GIS in the
   field of watershed management.   16 M

6. Explain the usage of Aerial Photography and Satellite data
   in traffic management.   16 M