Code No: **R1641014**   **R16**

IV B.Tech I Semester Advanced Supplementary Examinations, May – 2022
REMOTE SENSING AND GIS APPLICATIONS
(Civil Engineering)

Time: 3 hours   **Max. Marks: 70**

Question paper consists of Part-A and Part-B
Answer ALL sub questions from Part-A
Answer any FOUR questions from Part-B
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PART–A *(14 Marks)*

1. a) What do you understands by remote sensing?   [3]
    b) What is orbit of a satellite?   [3]
    c) Define Spatial resolution?   [2]
    d) What NRSA?   [2]
    e) Explain RADAR.   [2]
    f) What is data capture?   [2]

PART–B *(4x14 = 56 Marks)*

2. a) What are the advantages and limitations of remote sensing?   [7]
    b) Briefly explain remote sensing process.   [7]

3.   What is resolution of a sensor? Describe all sensor resolutions?   [14]

4. a) Explain the functions of GIS.   [7]
    b) What are the applications of GIS?   [7]

5.   What are raster and vector? Write the basic differences between raster and   [14]
        vector?

6.   Explain role of remote sensing no monitor land use changes   [14]

7.   Explain applications of remote sensing in water resources management.   [14]

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