

Code No: **R1641014**

R16

Set No. 1

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

PART-A (14 Marks)

1. a) What do you understand by remote sensing? [3]
- b) What is orbit of a satellite? [3]
- c) Define Spatial resolution? [2]
- d) What is 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 vector? [14]
6. Explain role of remote sensing to monitor land use changes [14]
7. Explain applications of remote sensing in water resources management. [14]