Code No: **R1941013**   **R19**   Set No. 1

IV B.Tech I Semester Advance Supplementary Examinations, March – 2023
REMOTE SENSING & GIS
(Civil Engineering)

Time: 3 hours   **Max. Marks: 75**

Answer any FIVE Questions
ONE Question from Each unit
All Questions Carry Equal Marks
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UNIT I

1   a)   Explain the electromagnetic spectrum with a neat sketch.   [7]
    b)   Discuss the types of resolutions and state its merits and demerits   [8]

(OR)

2   a)   Explain the types of sensors   [7]
    b)   Explain SPOT and LANDSAT in detail   [8]

UNIT II

3   a)   Explain digital image processing in detail   [7]
    b)   Explain briefly the categories of image classifications and distinguish each other.   [8]

(OR)

4   a)   Explain the following techniques i) image reduction & magnification
ii) contrast enhancement   [7]
    b)   What is supervised classification? Describe the stages in detail   [8]

UNIT III

5   a)   Describe 4 M's in detail   [7]
    b)   Explain   (i) Geographical Entities   (ii) Topology in detail   [8]

(OR)

6   a)   Discuss in detail Overlay Analysis   [7]
    b)   Describe the data input methods   [8]

UNIT IV

7   Explain how Remote Sensing and GIS is handy in managing Land resources of a state.   [15]

(OR)

8   How best remote sensing and GIS technology as a tool can help to safe guard forest area of a particular state?   [15]

UNIT V

9   Explain the layers to be developed for ground water potential zoning mapping   [15]

(OR)

10   Discuss in detail how remote sensing is useful in watershed management?   [15]

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