

III B. Tech I Semester Supplementary Examinations, July – 2023
REMOTE SENSING AND GIS
 (Common to CE, MIN)

Time: 3 hours

Max. Marks: 70

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

UNIT-I

1. a) What are the various applications of remote sensing? Describe its uses. [7M]
 b) Explain in detail about types of sensors employed in the remote sensing [7M]
 (OR)
2. a) Briefly describe the different elements of remote sensing. [7M]
 b) What are the advantages and disadvantages of usage of remote sensing data? [7M]

UNIT-II

3. a) Explain in detail the different types of digital image processing techniques. [7M]
 b) Discuss about the basic elements of image interpretation [7M]
 (OR)
4. a) Explain in detail about preprocessing and image enhancement. [7M]
 b) State the significance of image classification in Remote Sensing. [7M]

UNIT-III

5. a) What do you understand by data input and data manipulation? Explain in detail. [7M]
 b) Discuss UTM. State the limitations of UTM system [7M]
 (OR)
6. a) Explain the classification of GIS operations [7M]
 b) Differentiate between data retrieval and data analysis. [7M]

UNIT-IV

7. a) Describe in detail about overlay function and vector overlay operations. [7M]
 b) What is meant by data compression? Explain about the different types of data compression methods. [7M]
 (OR)
8. a) Discuss in detail about various vector overlay operations. [7M]
 b) What do you understand about optimal path finding explain in detail. [7M]

UNIT-V

9. a) Demonstrate about the RS and GIS applications in the field of qualitative agriculture [7M]
 b) Explain in detail how the remote sensing is applicable ground water pollution studies. [7M]
 (OR)
10. a) Describe the role of RS and GIS in continuous monitoring of floods. [7M]
 b) Explain any one case study of continuous monitoring of floods in RS & GIS. [7M]

