MANIPAL INSTITUTE OF TECHNOLOGY

SEVENTH SEMESTER B. TECH (CIVIL ENGINEERING)

END SEMESTER EXAMINATION, NOV 2022

REMOTE SENSING AND GIS (CIE 4081)

(–11 - 2022)

TIME: 3 HRS.   **MAX. MARKS: 50**

Note: 1. Answer all questions.
     2. Any missing data may be suitably assumed.

Q. NO	QUESTION	MARKS	CO
1A	Compare Raster DEM and TIN	4	3
1B	Illustrate the components of GIS	3	3
1C	Explain "topology building"	3	3
2A	Distinguish between raster and vector, with suitable examples	4	4
2B	Illustrate the following statement "image enhancement is not a mandatory task in Digital Image Processing"	3	4
2C	Sketch an example for image histogram	3	4
3A	Compare supervised and unsupervised classification and its significance	4	4
3B	Explain linear contrast stretch with an example	3	4
3C	Describe the relevance and use of Edusat project	3	5
4A	Relate the Telemedicine project as a gift for rural and remote areas which are not having access to modern health facility	4	5
4B	We have proposed a facility mapping for the MIT, Manipal campus. Prepare the inventory of spatial and aspatial data necessary for the project and related thematic maps and process.	3	5
4C	Illustrate the term "thematic map"	3	5
5A	Discuss the use of remote sensing tool in any of the civil engineering project	4	5
5B	List the applications of INSAT series of satellites	3	5
5C	Describe Band Sequential format	3	4