

**SEVENTH SEMESTER B. TECH (CIVIL ENGINEERING)****END SEMESTER EXAMINATION, NOV 2022****REMOTE SENSING AND GIS (CIE 4081)**

Q.No	Description	CO	Marks
1A	List the region of electromagnetic spectrum used in remote sensing	CO1	2
1B	Give examples of radiometric resolution of any three sensors	CO2	3
1C	Write some examples for remote sensing in your daily routine	CO2	5
2A	What is False color composite? Explain	CO2	2
2B	List out the 3 uses each of DEM and TIN	CO3	3
2C	Explain topology building with examples	CO3	5
3A	List any two difference between CAD data structure and Vector data structure	CO3	2
3B	Give example for connectivity and feature adjacency in GIS	CO3	3
3C	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	CO3	5
4A	What are the different components of Preprocessing?	CO4	2
4B	Explain what is an image. Explain linear contrast stretch with an example	CO4	3
4C	Compare supervised and unsupervised classification and its significance	CO4	5
5A	Name any two image enhancement techniques	CO4	2
5B	List the applications of INSAT series of satellites	CO5	3
5C	Discuss the use of remote sensing tool in any of the following civil engineering project – Transportation, Dam Construction, Disaster Management. Include the parameters, necessary spatial and aspatial data, Sources of data, analysis to be performed and results expected	CO5	5