

School of Civil Engineering

Civil Engineering
ETE - Jun 2023

Time : 3 Hours

Marks : 100

Sem IV - G1UA402B / BCE01T3701

Remote Sensing and Geographical Information System

Your answer should be specific to the question asked

Draw neat labeled diagrams wherever necessary

1. What is GIS? Draw sketch of Components of GIS. K2 CO1 (5)
2. What is RADAR and LIDAR? Also explain their uses. K2 CO1 (5)
3. What are all the applications of remote sensing? K1 CO1 (5)
4. Write a note on GIS and application models. K3 CO1 (10)
5. Recall advantage and disadvantages of raster data model and its types. K2 CO1 (10)
6. Explain the difference between active and passive remote sensing. K3 CO2 (10)
7. Illustrate image transformation in details. K4 CO2 (10)

OR

- Illustrate contrast enhancement and color compositing. K4 CO2 (10)
8. Describe Universal Transverse Mercator (UTM) Grid and Lambert grid system in INDIA. K5 CO3 (15)
 9. Sketch steps involved in digital image processing. K4 CO3 (15)
 10. Illustrate causes and remedy for non-systematic geometric distortions. K5 CO4 (15)

OR

- Illustrate use of the multilevel Classification System K5 CO4 (15)