

# School of Civil Engineering

Civil Engineering  
ETE - Jun 2023

Time : 3 Hours

Marks : 50

## Sem II - MTPE6011 - Remote Sensing and GIS

*Your answer should be specific to the question asked*

*Draw neat labeled diagrams wherever necessary*

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|-----|---|------------|
| 1.  | Define Passive and Active Remote Sensing.   | K2 CO3 (2) |
| 2.  | State briefly the difference between a geostationary satellite and a satellite having a Sun synchronous orbit                         | K2 CO4 (2) |
| 3.  | Define Solar radiation in Remote sensing.   | K1 CO2 (2) |
| 4.  | Explain remote sensing uses in Civil engineering, Identify eight areas in which aerial photographs are used in the engineering field. | K1 CO1 (2) |
| 5.  | Describe different types of coordinate systems?   | K2 CO5 (2) |
| 6.  | Describe scattering process in the atmosphere.  | K3 CO2 (5) |
| 7.  | What are the basic components of an ideal remote sensing system?  | K3 CO1 (5) |
| 8.  | Explain False colour composite(FCC).  | K4 CO5 (6) |
| 9.  | Image processing: define the bn value   | K4 CO3 (8) |
| 10. | Write short notes on applications of remote sensing in Artificial ground recharge.  | K5 CO5 (8) |
| 11. | Explain the principle used in global positioning system.  | K5 CO4 (8) |