MANIPAL INSTITUTE OF TECHNOLOGY

MANIPAL

(A constituent institution of MAHE, Manipal)

IV SEMESTER B.TECH. (CIVIL ENGINEERING)

END SEMESTER EXAMINATIONS, APRIL/MAY 2018

SUBJECT: INTRODUCTION TO REMOTE SENSING AND GIS [CIE 3282]
REVISED CREDIT SYSTEM

(30/ 04/ 2018)

Time: 3 Hours   MAX. MARKS: 50

	Instructions to Candidates:

❖ Answer ALL the questions.
❖ Missing data may be suitably assumed.

Q.No		Marks	CO
1A.	Define a) Spatial Resolution b) Spectral Resolution c) Radiometric Resolution	6	1
1B.	What do you mean by georeferencing? Explain.	4	2
2A.	List different classification of sensors. Explain Active and passive sensors	6	1
2B.	What are the limitations of Digital Image Processing?	4	2
3A.	Explain Geometric and radiometric errors.	6	2
3B.	What are training sites? How this will help in supervised classification?	4	2
4A.	Explain Rayleigh and Mie scattering in detail	6	1
4B.	Explain components of GIS	4	3
5A.	Differentiate between Raster and Vector.	4	3
5B.	Explain TIN and OEM. Give the fields of application	4	4
5C.	What are the salient features of topology model?	2	3