Code: CE7T2

IV B.Tech - I Semester – Regular/Supplementary Examinations March 2021

REMOTE SENSING AND GIS APPLICATIONS (CIVIL ENGINEERING)

Duration: 3 hours

Max. Marks: 70

PART - A

Answer *all* the questions. All questions carry equal marks

11 x 2 = 22 M

- 1. a) What is electromagnetic spectrum? Give the wavelength ranges for various EMR present in spectrum.
 - b) Write about stereoscopic parallax with neat sketch.
 - c) Compare between map and satellite photograph.
 - d) Write a short note on atmospheric correction methods.
 - e) What are the various classification of maps.
 - f) Write a short note on "Layer based GIS".
 - g) Write a short note on buffering techniques.
 - h) What is bathymetry ?
 - i) Write about the landuse/ landcover in water resources.
 - j) Write a short note on use of aerial photography in urban planning.
 - k) Write a short note on urban utility mapping using GIS.

PART – B

Answer any THREE questions. All questions carry equal mat	rks.
3 x 16 = 48 M	
2. a) Explain different types of Aerial Photographs with neat	
sketches.	8 M
b) Discuss on the elements of remote sensing with neat ske	tch.
	8 M
3. a) Discuss in detail about various image enhancement	0 1 1
techniques.	8 M
b) Elaborate on the various components of GIS.	8 M
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4. a) Compare between vector and raster data.	8 M
b) Summarise the basic file structures in GIS data file	
management.	8 M
5. a) Discuss in brief about GIS database required for watersh	ied
management.	8 M
b) Eleborate on the application of remote consing in water	
b) Elaborate on the application of remote sensing in water depth estimation.	8 M
6. a) Discuss about the applications of GIS in urban planning.	
	8 M
b) Explain the procedure for generation of base maps for	
urban areas using GIS.	8 M