Reg. No. : ☐☐☐☐☐☐☐☐☐☐

Question Paper Code: 59171

B.E. / B.Tech. DEGREE EXAMINATION, AUGUST 2021

Open elective

Computer Science and Engineering

15UCE971- REMOTE SENSING AND GIS

(Common to ECE, EEE, EIE, Mechanical, IT, Chemical)

(Regulation 2015

Duration: 1:45 hrs   Maximum: 50 Marks

PART A - (10 x 2 = 20 Marks)

Answer any ten of the following questions

1.	Define remote sensing.	CO1 R
2.	What are the uses of weather satellite?	CO2U
3.	Why is image classification necessary?	CO3U
4.	What are the major components of GIS system?	CO4R
5.	Mention the various fields of GIS application in resource management?	CO5R
6.	Differentiate between passive and active sensor.	CO2 A
7.	What is SAR	CO3 R
8.	Explain the spectacle noise in radar images	CO3 U
9.	What the term spatial patternrecognitions?	CO3 R
10.	Define Map overlay	CO4 U
11.	What are the various characteristicofmap?	CO4 R
12.	What are the various characteristicofmap?	CO4 U
13.	Why is compression needed for remotesensingdata?	CO5 R
14.	WhatisVectorization?	CO5 U
15	What israstercoding?	CO5 R

PART – B (3 x 10= 30Marks)

Answer any three of the following questions

16. Explain the electromagnetic spectrum based on their wavelength with   CO1 -App   (10)
    neat sketch.

17. Explain the orbital and sensor characteristics of Indian remote sensing Satellites..   CO2 -App   (10)

18. Explain the basics elements and types of imageinterpretation.   CO3- Ana   (10)

19. Discuss about GIS data base file management..   CO4- App   (10)

20. What are the four basic procedures for inputting spatial data   CO5 -U   (10)

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