

2023/TDC(CBCS)/EVEN/SEM/ EESSEC-401T/203

TDC (CBCS) Even Semester Exam., 2023

5. Address of a person it a laster/vector drug.

ECOLOGY AND ENVIRONMENTAL SCIENCE

(4th Semester)

Course No.: EESSEC_401T

(Remote Sensing, GIS and Modelling)

Full Marks: 50
Pass Marks: 20

Time: 3 hours

The figures in the margin indicate full marks for the questions

SECTION A

Answer any *fifteen* of the following as directed: $1 \times 15 = 15$

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- 1. Define remote sensing.
- 2. What are satellites?
- 3. Give one example of a seasor.
- 4. What is EME spectrum?

(Turn Over)



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5. Address of a person is a raster/vec (Choose the corre	ct option)	16. Define land cove	26. What is dualnes general re-	
6. Name one hardware used in GIS.	e a	17. What is a hypot	27. Write four applicatic Scient	
AD DIVE RANKEN TO THE EX	FANORAGE B	18. distributio	ns are mesokurtic.	
7. What is a non-spatial data?	**************************************		(Fill in the blank)	
8. What is geographic coordinate system?		19. Define simple random sampling. es marchinees		
9. What is the full form of GNSS?		20. Provide the for regression.	ormula for simple linear)	
10. Name one Indian satellite.			SECTION—B	
11. What is digital mapping?	anu 1 10		ne following questions: 2×5=10	
12. Define photogrammetry.	April 1	21. What is electron	nagnetic spectrum?	
13. What is GPS?	(A 439, 1997)	22. What is spatial	resolution?	
14. Give one application of remote	A		data? Give examples.	
atmospheric studies.	3		nctions of GIS.	
15. Write the full form of LULC.	CHARLES TO	25. What is data pr	33. Describe a left spinesoo	
J23 /619	(Continued)	J23/ 619	/ Turn Over	

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- 16. What is database generation?
- 27. Write four applications of LULC maps.
- 28. Give a brief account of application of remote descending in forest resource management.
- 29. What is ordination? Give one application of ordination in ecology.
- 30. State the difference between correlation and regression.

SECTION—C IN THE THE TARREST

Answer any five of the following questions:

5×5=25

31. Give a brief account of types and characteristics of aerial photography.

E. White is you in late? Olive economics

- 32. Describe briefly the principles and process of remote sensing; to empirement and reducid.
- **33.** Describe briefly the geographical information system.

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(Continued)

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- 34. Write the difference between spatial and non-spatial data. Give examples of each type of data.
 4+1=5
- Give a detailed account of database management system.
- Give a brief account of land use/land cover mapping.
- Give a detailed account of application of remote sensing in land use planning.
- 38. Describe in detail about the application of remote sensing in water resource management.
- **39.** State the difference between parametric and non-parametric tests with examples.
- **40.** What is distribution in statistics? Write about the types of distribution with examples.

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