

H1

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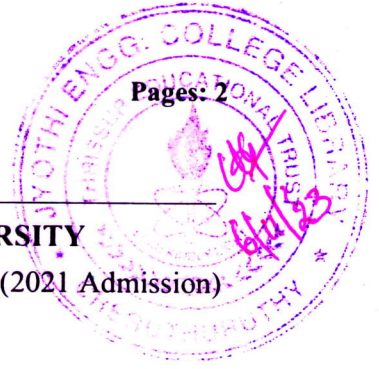
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Reg No.: _____

Name: _____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

Fourth Semester B.Tech (Honours) Degree Examination June 2023 (2021 Admission)



Course Code: CET296

Course Name: GEOGRAPHICAL INFORMATION SYSTEMS

Max. Marks: 100

Duration: 3 Hours

PART A

(Answer all questions; each question carries 3 marks)

		Marks
1	Define Remote sensing and list out its components	3
2	What is Data Quality Analysis	3
3	Differentiate Line-in polygon and Polygon-in polygon overlay	3
4	Discuss any two popular GIS software's.	3
5	Describe Cartography	3
6	Explain Georeferencing	3
7	Explain the data input mechanism in GIS platform	3
8	Define Network analysis in GIS software	3
9	List out three applications of WebGIS	3
10	Explain about GPS and its components.	3

PART B

(Answer one full question from each module, each question carries 14 marks)

Module -1

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|----|--|---|
| 11 | a) Define GIS and briefly explain its components | 7 |
| | b) Define Geometric transformation and its types with figure | 7 |
| 12 | a) Explain Map Projection along with its classification | 8 |
| | b) List out the applications of GIS software's | 6 |

Module -2

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|----|---|---|
| 13 | a) Differentiate between Vector data model and Raster data model. | 8 |
| | b) Illustrate Vector to raster conversion in GIS | 6 |
| 14 | a) Explain the map making elements in GIS | 9 |
| | b) Explain Geodatabase management and the steps involved in geodatabase management. | 5 |

Module -3

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|----|----|---|----|
| 15 | a) | Explain the vector data analysis -Overlay in GIS with the help of figure. | 10 |
| | b) | List out any four functions in Map Manipulation | 4 |
| 16 | a) | Explain all about Network analysis | 5 |
| | b) | Define Raster data analysis and explain any two operations with figure. | 9 |

Module -4

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|----|----|---|----|
| 17 | a) | Explain WebGIS and list out its applications | 6 |
| | b) | Differentiate DEM and TIN | 8 |
| 18 | a) | Explain the components of Data Quality | 10 |
| | b) | Explain about Slope and aspect measure in GIS | 4 |

Module -5

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|----|----|--|---|
| 19 | a) | Explain remote sensing and its applications in GIS | 9 |
| | b) | Explain Active sensors and Passive sensors in remote sensing | 5 |
| 20 | a) | List out the applications of GPS | 5 |
| | b) | Explain GPS data in GIS environment. | 9 |
