

**Second Semester M.Tech Degree Examination**

**Branch: Civil Engineering -Geoinformatics**

**Model Question Paper**

**CRE2006 Geoinformatics in TransportationEngineering**

**Time:3Hrs**

**Marks:60**

Answer **any two** questions from **each module**

**Module I**

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|---|---|----|
| 1 | Discuss briefly the various data to be collected to assess the existing traffic conditions in a medium sized city in India. | 10 |
| 2 | What is sampling? What are methods of sampling adopted for different transportation studies?                                | 10 |
| 3 | Explain the home interview method to estimate the traffic demand in a city. What are its advantages?                        | 10 |

**Module II**

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|---|--|----|
| 4 | What are the applications of GIS in transportation planning.   | 10 |
| 5 | Explain briefly the four stage transportation planning process | 10 |
| 6 | Discuss how GIS can be used to determine the shortest path     | 10 |

**Module III**

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|---|---|----|
| 7 | What are the advantages of ITS? What is the role of GIS in ITS?                               | 10 |
| 8 | Explain how the integration of GIS and GPS aids in ITS  | 10 |
| 9 | What are the major modules provided in TransCAD for transportation planning? Explain any one. | 10 |