Module I

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

Module II

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

Module III

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

Answer any two questions from each module.