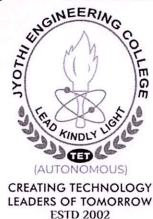


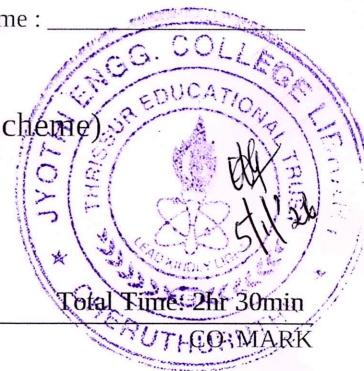
Reg No.: _____

Name : _____



Jyothi Engineering College(Autonomous)
M.Tech Degree S1 (R) Examination, December 2025 (2025 Scheme)

25PTET112- SUSTAINABLE TRANSPORTATION



Total Mark: 60

PART A

Answer All Questions

- | | |
|--|---------|
| 1. Explain the different dimensions of sustainable transportation. | CO1 (5) |
| 2. Differentiate minimum spanning tree and greedy spanning tree. | CO2 (5) |
| 3. Compare multimodal and intermodal transport. | CO3 (5) |
| 4. Write short note on alternate fuel. | CO4 (5) |
| 5. Explain the Transit-Oriented Development approach. | CO5 (5) |

PART B

Answer Any Five Question(s)

- | | |
|--|---------|
| 6. Discuss how sustainability in transportation systems can be quantitatively evaluated using performance indicators. | CO1 (7) |
| 7. Explain with suitable examples how different performance measures are used to evaluate the efficiency of a transportation network. | CO2 (7) |
| 8. How can transportation planners evaluate and select the most effective travel demand management strategies tailored to the characteristics of a particular region or community? | CO3 (7) |
| 9. Non-motorised transportation is a critical component of sustainable urban mobility. Suggest and justify policy measures that can significantly increase NMT usage in Indian cities. | CO4 (7) |
| 10. Explain the major components involved in the implementation of green logistics in freight transportation systems. | CO5 (7) |
| 11. Discuss the fundamental principles that govern sustainable transportation systems. | CO1 (7) |
| 12. Discuss the ways in which eco-friendly transportation modes can be incorporated into comprehensive sustainable transport and land-use planning strategies. | CO3 (7) |
