

**APJ ABDULKALAM TECHNOLOGICAL UNIVERSITY
08 PALAKKAD CLUSTER**



Q. P. Code : TE0821315-I

(Pages: 2)

Name:

Reg. No:

THIRD SEMESTER M.TECH. DEGREE EXAMINATION DECEMBER 2021

Branch: Civil Engineering

Specialization: Transportation Engineering

08CE7215 TRANSPORTATION SYSTEM MANAGEMENT

(Common to TE)

Time: 3 hours

Max. Marks: 60

Answer all six questions.

Modules 1 to 6: Part 'a' of each question is compulsory and answer either part 'b' or part 'c' of each question.

Q. No.	Module 1	Marks
1. a	List out the classifications of strategic categories.	3

Answer b or c

b	Draw a flow chart of generalized TSM process and describe in detail.	6
c	Explain in detail about impact assessment and evaluation.	6

Q. No.	Module 2	Marks
2. a	Enumerate the approaches to Area wide data collection methodology.	3

Answer b or c

b	Classify TSM action with respect to problems category.	6
c	Discuss about the relevance of TSM actions in Indian context?	6

Q. No.	Module 3	Marks
3. a	Numerate and explain the 4 essentially types of high-occupancy vehicle (HOV) facilities used on freeways.	3

Answer b or c

- | | | |
|---|--|---|
| b | Elaborate the terms park and ride, carpooling and shared ride | 6 |
| c | Will enhance the free flow at Tolls by giving discounts for car pools during peak periods? | 6 |

Q. No.	Module 4	Marks
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| 4. a | What is meant by traffic circulation and controls? | 3 |
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Answer b or c

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|---|--|---|
| b | Describe in details about Staggered work hours and flexible work hours | 6 |
| c | How can be a demand management link with high peak period at tolls with a case study. Explain in detail? | 6 |

Q. No.	Module 5	Marks
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| 5. a | What are reversible lanes? How does it help to improve traffic flow? | 4 |
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Answer b or c

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|---|---|---|
| b | Elaborate the terms one-way streets, Right turn phase and right turn lanes. | 8 |
| c | Describe in detail about traffic calming with their benefits. | 8 |

Q. No.	Module 6	Marks
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| 6. a | What is meant by short-term reserved parking? | 4 |
|------|---|---|

Answer b or c

- | | | |
|---|---|---|
| b | How can be Parking Management regulated by increased parking rates and time duration limits. Explain? | 8 |
| c | Comment on Dial a ride for elderly & handicapped. | 8 |