

Registration No:

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Total Number of Pages : 01

M.TECH

**M.TECH 2ND SEMESTER REGULAR EXAMINATIONS, MAY 2018
INFRASTRUCTURE ENGINEERING & TRANSPORTATION PLANNING**

Branch: SE, Subject Code:MSEPE2051

Time: 3 Hours

Max Marks : 70

PART-A

(10 X 2=20 MARKS)

1. Answer the following questions.

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| a. a. What do you mean by a transportation network? | CO1 |
| b. State the various stages of transportation planning process? | CO3 |
| c. State PIEV theory. | CO1 |
| d. Why is it desirable to prohibit parking at certain locations? Which are such locations? | CO4 |
| e. b) What do you mean by Transport System Management? | CO3 |
| f. Enumerate some well known traffic management measures. | CO1 |
| g. Define cloverleaf interchange. | CO1 |
| h. Differentiate between on-street and off-street parking. | CO1 |
| i. Define rotary intersection. | CO4 |
| j. What do you mean by staggered hour? | CO1 |

PART-B

(5 X 10=50 MARKS)

Answer any five questions from the following.

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| 2. a. Explain quick response travel evaluation procedure. | CO3(5) |
| b. Discuss the effects of vehicle characteristics on traffic. | CO1(5) |
| 3. a. What are the requirements of a good road pricing system? | CO1 (5) |
| b. Define traffic restraint. What are the different methods employed for traffic restraint? | CO1(5) |
| 4. a. Write the different social impacts of transportation management. | CO3(5) |
| b. Discuss the ill effects of parking system. | CO4 (5) |
| 5. a. Explain telematics concept in travel planning. | CO4(5) |
| b. Explain in detail the detrimental effects of traffic on the environment in regard to various parameters. | CO1 (5) |
| 6. a. What are the techniques applied for reducing traffic flows during peak hour? | CO3 (5) |
| b. How the traffic and parking problems are correlated? | CO4 (5) |
| 7. a. What do you mean by one-way streets? Draw neat diagrams to show vehicular points of conflicts for two way and one way streets. | CO1 (5) |
| b. What are the advantages and disadvantages of adopting one-way street system of traffic management? | CO1 (5) |
| 8. Write short notes on: | |
| a. Advantages of Rotary intersection | CO4 (5) |
| b. Exclusive bus lanes | CO1(5) |

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