Enrolment No.____

GUJARAT TECHNOLOGICAL UNIVERSITY

ME – SEMESTER II (NEW) – • EXAMINATION – SUMMER 2016

Subject Code: 2721309

Date: 31/05/2016

Subject Name: Transportation System Managemen	nt
Time:10:30 am to 01:00 pm	

Total Marks: 70

Instructions:

- 1. Attempt all questions.
- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.
- Q.1 What are the primary objectives of transportation system management strategies 14 in situation of currently increasing travel demand under urban scenario? Q.2
 - Discuss the role of capacity enhancement as a strategy to manage traffic flow? 07 **(a)** How could it be achieved?
 - Categorize various elements which need to be addressed for managing **(b)** transportation systems under various situations.

OR

- Discuss the concerns in adopting the strategies like congestion pricing as an 07 **(b)** effective traffic system management tool?
- What is scrappage program? How could it contribute to transportation system Q.3 **(a)** 07 management?
 - What are the key assumptions, uncertainties & social concern involved in **(b)** 07 implementing scrappage programs?

OR

- Q.3 Write a note on staggered work hours a TSM technique. 07 **(a)** Discuss how shuttle services & extended routes contribute to travel demand 07 **(b)** management? Explain the significance of Dial a ride & ride sharing as a tool to manage travel 0.4 07 **(a)** demand?
 - What are priority lanes? Discuss its advantages & limitations? 07 **(b)**

OR

- Q.4 What is skip stop service? When & where is it provided? What are its **(a)** 07 advantages?
 - Discuss the advantages provided by transfer terminals & feeder services in **(b)** 07 managing traffic?
- 0.5 Discuss the benefits of grade separated intersections over signalized 07 **(a)** intersection?
 - **(b)** Write a note on high occupancy vehicle a tool for transportation management? 07 OR
- Q.5 Write a note on tidal flow technique to manage peak traffic demand. 07 **(a)**
 - Discuss the importance of signal coordination in managing the traffic flow? 07 **(b)** How & where is it implemented?
