nrolment No.:

GUJARAT TECHNOLOGICAL UNIVERSITY BPLAN – SEMESTER IV – • EXAMINATION – WINTER 2016

Date: 24/10/2016

Subject Code: 1045503

Subject Name: Traffic and Transportation Planning-II Time: 02:30 PM to 04:30 PM **Total Marks: 50 Instructions:** 1. Attempt all questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks. Fill in the blanks 05 **Q.1** (a) 1) Full form of TOD . 2) Trip distribution is carried out by _____ method and ____ method 3) In road accident reporting the symbol represent_____. 4) Smog is result of combination of smoke and . . 5) In India the government frames rues to control the noise produce by motor cycle by _____Act. Define the following terms 05 1) Comprehensive Mobility Plan (CMP) 2) Model Split 3) Spot Speed 4) Accessibility 5) Urban Form Describe TOD with neat sketch and list out benefits of TOD. 05 0.2 (a) Explain impact of urban form on transportation. 05 **(b)** List out various surveys carried out for traffic and transportation planning. **(b)** 05 Explain any one survey in detail. 0.3 Explain process of Pre Distribution Model split also draw a flow diagram of the 05 (a) Explain Lowery Derivative model for land use transport. 05 **(b)** OR What are the various techniques for estimating direct road user cost? Q.3 (a) 05 Explain in brief process of trip distribution. 05 **(b)** 0.4 (a) What is traffic noise? Explain abatement measures for traffic noise. 05 Explain with neat sketch how traffic accidents are present in collision diagram. **(b)** 05 Explain design consideration for street lighting. 05 **Q.4** (a) Explain transportation planning for adult or handicapped (any one) **(b)** 05 **Q.5** Calculate and tabulate the inter zonal trip for journey from home to work for a **10** (a) self contained town consists of four residential area N,S,E,W and two industrial estate GIDC-OLD and GIDC-NEW through gravity model. The trip from home to work generated by each residential area per 24 hour day are as follow:

N 1200S 2500E 1500W 2800

There are 3000 jobs in industrial estate GIDC-OLD and 3500 in industrial estate GIDC-NEW. It is known hat attraction between zones is inversely proportional to the square of the journey times between zones.

The journey times in minutes from home to work are:

Zone	GIDC-OLD	GIDC-NEW
N	10	20
S	20	10
E	15	10
W	10	20

OR

Q.5 (a) Give review of local level transport policy as per your city.

05

05

(b) Explain pricing and funding of transport system.
