Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

BPLAN - SEMESTER– IV • EXAMINATION – SUMMER 2016

Subject Code: 1045503 **Date: 10/05/2016**

Subject Name: Traffic and Transportation Planning-II

Time: 2 hrs (10:30 am to 12:30pm) **Total Marks: 50**

Instructions:

1. **Attempt all questions.**
2. **Make suitable assumptions wherever necessary.**
3. **Figures to the right indicate full marks.**

Q.1 **(a)** (1) Which type of strategy can reduce noise pollution? **06**

(a) Use of alternative fuel (b) Changing vehicle design
(c) Use of heavy vehicles (d) None of the Above

(2) Motor vehicle emissions are an important contributor to the growth of?

(a) CO_2 emissions (b) Nitrogen Oxide (NO_x)
(c) SO_2 (d) None of the Above

(3) Trips made in a zone having an origin point is known as?

(a) Trip Attraction (b) Trip Generation
(c) Trip Purpose (d) Round Trip

(4) Air quality can be measured in which of the following units?

(a) Decibel (db) (b) mm per square meter
(c) Micrograms per cubic metre (μg/m3) (d) None of the Above

(5) Which is the new infrastructure funding scheme launched by Govt. of India?

(a) Public Private Partnership (PPP) (b) AMRUT
(c) JnNURM (d) None of the Above

(6) Which of the following is the most important indirect benefit of transport projects?

(a) Taxation (b) Time saving
(c) Increase in Property value (d) None of the Above

(b) Define the following terms in short: (Any Two) **04**

(1) Trip Attraction
(2) Road Accident
(3) Modal split
(4) External cordon

Q.2 **(a)** Explain Landuse Transport Cycle and integration? **05**

(b) How is study area defined in a transportation survey? Explain in detail. **05**

OR

(b) Explain factors governing trip generation and attraction? **05**

Q.3	**(a)**	Explain any one Landuse- Transport model.	**05**
	(b)	Describe Noise pollution, its effects and measures of controlling it.	**05**
		OR	
	(b)	Describe Air pollution, its effects and measures of controlling it.	**05**
Q.4	**(a)**	Explain National Urban Transport Policy?	**05**
	(b)	What are types of pricing and funding of transport systems? Explain any one in detail.	**05**
		OR	
	(b)	What are the different types of uses of collecting Accident data? Explain any one in detail.	**05**
Q.5	**(a)**	Explain organizational framework of any one Government or Semi-Government organization?	**05**
	(b)	Explain any one method of economic evaluation, its need and method?	**05**
		OR	
	(b)	Municipal corporation of a city of more than 10 lakh population, plans to implement Bus Rapid Transit System in their city. Based on planning studies and demand assessment, 50 km network length was identified. The cost per km. of implementing this project is estimated to be Rs. 10 crore. The city now plans to apply for central Govt. funding under AMRUT scheme. If the project gets approved for fund sanction, calculate the amount that would be funded by central govt. / Government of India?	**05**

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