## **GUJARAT TECHNOLOGICAL UNIVERSITY** ME – SEMESTER IV (NEW) – • EXAMINATION – SUMMER 2016

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Subject Code: 2741304 Date:04/0			16
Subject Name: Public Transportation Planning			
	Time:10:30 am to 01:00 pm Total Marks:		
Instructions:			
	1.	Attempt all questions.	
	2.	Make suitable assumptions wherever necessary.	
	3.	Figures to the right indicate full marks.	
Q.1	<b>(a)</b>	Explain characteristics of public transportation system.	07
-	<b>(b)</b>	Compare traditional and modern mass transit services.	07
Q.2	<b>(a)</b>	Enlist and explain in brief – operating elements of BRTS.	07
	<b>(b</b> )	Explain the objectives and principles of transit network planning.	07
		OR	~
	(b)	Discuss intercity and regional transit system. Also mention the considerations to be kept while planning such system.	07
Q.3	(a)	Discuss the network evaluation with a suitable example.	07
	(b)	How the transit usage is predicted? Explain for any two modes.	07
		OR V	
Q.3	<b>(a)</b>	Elaborate on light rail transit line types, geometry and characteristics.	07
	<b>(b)</b>	Enlist accessibility considerations for BRTS and Metro rail network.	07
Q.4	<b>(a)</b>	What factors are considered while designing a bus stop?	07
	<b>(b)</b>	Enlist principles of rail terminal layout.	07
		OR	
Q.4	<b>(a)</b>	Explain: twin depot concept.	07
	<b>(b)</b>	Prepare a note on: fare structure.	07
Q.5	<b>(a)</b>	How to determine depot location? Discuss important criteria with a suitable	07
	<b>(b)</b>	example. What shall be an ideal organizational structure for municipal organization	07
	(b)	dealing with mass transit in the city?	07
OR			
Q.5	<b>(a)</b>	How performance of BRTS is evaluated?	07
	<b>(b)</b>	Discuss the route optimization for a mass transit system with a suitable example.	07

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