		Student's Exam No	
		GANPAT UNIVERSITY	- Provide and the second secon
		B. Tech- Semester-VII Civil Engineering	
		Regular Examination Nov/Dec- 2015	
		Subject: 2CI : 711- Transportation Engineering –I	
Time: 3 Ho	urs	Total Marks	: 70
		) Answer to the two sections must be written in separate answer books.	
		) Figures to the right indicate full marks.	
		) Assume suitable data if required.	
		SECTION - I	
OTTER 1		Answer the following Questions.	12
QUES 1	(1)	What is homogeneous and heterogeneous traffic? Draw the neat sketch of speed v/s	(4)
	(A)	density and speed v/s volume.	
	(B)	What is PCU? Explain with example.	(4)
	(D) (C)	Define the following terms:	(4)
	(0)	i. Running speed	
		ii. Journey speed	
		iii. Time mean speed	
		iv. Spot speed	
		OR	
QUES 1		Answer the following Questions.	12
	(A)	Explain Career of Transportation Engineer.	(4)
	(B)	Write short note on "Changing the world in transportation engineering".	(4)
	(C)	What is traffic engineering? Explain objectives of traffic engineering.	(4)
QUES 2		Answer the following Questions.	11
	(A)	Give application of VISSIM, TRANS-CAD, CIVIL 3D and MX-ROAD.	(5)
	(B)	Discuss the various traffic studies and their importance.	(6)
		OR	
QUES 2		Answer the following Questions.	11
	(A)	What are the main objectives and purposes of intermediate public transport survey?	(5)
	(B)	Discuss briefly various factors which affect the road user characteristics and their effect	(6)
-		on traffic performance.	

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	t f llowing Questions	2
QUES 3	Answer the following Questions.	5)
	(A) What are the different causes of traffic accidents? Discuss.	6)
	(B) Indicated how the traffic volume data are presented and the results in traffic (	
	engineering?	
	<u>SECTION – II</u>	
QUES 4	Answer the following Questions.	12
QUES 4	(A) Describes the briefly level of Service concept in the HCM manual.	(6)
	(B) Enlist traffic control device. Discuss warning sign with examples.	(6)
	OR	
QUES 4	Answer the following Questions.	<b>F</b>
QUES 4	(A) Define level of service and describes of Intelligent Transportation Engineering use in	(6)
	Highway capacity and level of service.	
	(B) What are the various types of traffic marking commonly used? Explain each with its	(6)
	application.	
	u Clussing Questions	11
QUES 5		(5)
	<ul><li>(A) Write short note on "Traffic Signals".</li><li>(B) Discuss types of parking with examples.</li></ul>	(6)
	(B) Discuss types of parking with examples. OR	
QUES :	5 Answer the following Questions.	11
QULD.	(A) What are various types of islands used? Explain the uses of each.	(3)
	(B) Give Comment "Pedestrian facilities in the Indian cities are not given proper	(6)
	justification in planning.	
		12
QUES		
	(A) Describes the briefly One way street.	(6) (6)
	(B) Write short note on "At grade Separated Intersection".	(0)
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	be taffic perfectiones	

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