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BICEE-023

B.Tech. CIVIL ENGINEERING (BTCLEVI)

Term-End Examination

December, 2017

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BICEE-023: TRAFFIC ENGINEERINĠ Time: 3 hours Maximum Marks: 70 Note: Attempt any five questions. All questions carry equal marks. Use of scientific calculator permitted. What is traffic engineering? What are the 1. objectives of traffic engineering studies? Explain various methods used in traffic volume study and analysis. 14 2. Write different components of road traffic. (a) Discuss their characteristics. 7 Discuss the time sharing and space sharing (b) concepts to control the traffic movements. 7 3. What are grade separated intersections? (a) Explain their salient features. 7 **(b)** What provisions should be made by a traffic allow safe crossing engineer to pedestrians and cyclists at at-grade intersections? 7

4.		cuss in detail, the planning and design of ous traffic management measures.	14
5.	(a)	Discuss with the help of neat diagrams, lighting layouts for highways and intersections.	9
	(b)	Explain origin and destination study and its uses in brief.	5
6.	(a)	Describe different modes of transportation. Examine their impact on the environment.	8
	(b)	Discuss briefly, planning and designing of transit and carpool lanes.	6
7.	Write short notes on any four of the following: $4 \times 3 \frac{1}{2} = 14$:14
	(a)	Traffic Signals	
	(b)	Underpass	
	(c)	Channelising Island	
	(d)	Traffic Maneuvers	
	(e)	Speed and Delay Studies	