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Roll No.	Total No. of Pages
Total No. of Questions:09	
B.Tech.(CE) (2011 Onwards E-I &	II) (Sem.–7,8)
TRAFFIC ENGINEER	RING
Subject Code : BTCE-	-819
Paper ID:[A2973]	
Times . 9 Ilus	Max Marka

Time: 3 Hrs.

Max. Marks: 60

: 02

INSTRUCTION TO CANDIDATES :

- 1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains FIVE questions carrying FIVE marks each and students has to attempt any FOUR questions.
- 3. SECTION-C contains THREE questions carrying TEN marks each and students has to attempt any TWO questions.

SECTION-A

1. Write briefly :

- a) What are the pre timed signals?
- b) What do you mean by PCU? What is the conversion factor of rickshaw into PCU?
- c) What are the three E's in relation with accident studies?
- d) Difference between traffic capacity and practical capacity.
- e) Draw a fully cloverleaf intersection.
- f) Define off street parking.
- g) Explain Road Safety Audit.
- h) Explain timing diagram.
- i) Draw a cross section showing geometric elements for four lane divided carriageway.
- j) What do you mean by ITS?



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SECTION-B

- 2. Explain design capacity and level of service.
- 3. Describe collision diagram in detail.
- 4. List the common types of pavement markings, what is the significance attached to
 - a) A single broken line
 - b) A single solid line
 - c) A combination of broken and solid lines.
- 5. Estimate the theoretical capacity of a traffic lane with one way traffic flow at a stream speed of 50 kmph. Assume the average space gap between vehicles to follow the relation $s_g = 0.278$ Vt. Take t= 0.7 secs and average length of vehicles = 6m.
- 6. What do you understand from the traffic system management?

SECTION-CON 7.

- d) Volume and density
- e) Volume, speed and density
- 8. Explain in detail various types of road markings.
- 9. Explain ITS and how GPS can be used for controlling traffic jams.