

**B.Tech. CIVIL ENGINEERING (BTCLEVI)**

**Term-End Examination**

**June, 2015**

00236

**BICEE-023 : TRAFFIC ENGINEERING**

*Time : 3 hours*

*Maximum Marks : 70*

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**Note :** *Attempt any seven questions. Scientific calculator is permitted. All questions carry equal marks.*

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1. Define traffic engineering. Explain briefly the scope of traffic engineering. 10
2. What are the different vehicular characteristics which affect the road design ? Briefly explain. 10
3. Explain Origin and Destination study. What are the various uses of O-D studies ? 10
4. Explain how the Speed and Delay studies are carried out. What are the various uses of speed and delay studies ? 10
5. Explain traffic capacity, basic capacity, possible capacity and practical capacity. 10
6. Explain grade separated intersections and state their advantages and limitations. 10

7. (a) Explain the relationship between speed, travel time, volume, density and capacity. 5
- (b) Define PCU. 5
8. What are the various types of traffic islands ? Explain the uses of each of them. 10
9. Draw a neat sketch of a full clover-leaf and show the movement of traffic. 10
10. (a) Explain the various factors used in designing of road lighting. 5
- (b) Explain briefly the traffic control devices. 5
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