

B.Tech. CIVIL ENGINEERING (BTCLEVI)

Term-End Examination

June, 2015

00596

BICEE-016 : TRANSPORTATION PLANNING

Time : 3 hours

Maximum Marks : 70

Note : Attempt any five questions. All questions carry equal marks.

1. (a) What is transportation planning and how is it significant ? 7
- (b) Explain the importance of transportation planning in a metropolitan area. 7
2. (a) What do you understand by sequential, recursive and simultaneous processes in transportation planning ? Explain. 7
- (b) Briefly describe the transportation planning horizons with a relevant example. 7
3. (a) Identify and describe the two basic demand forecasting situations in transportation planning. 7
- (b) What are the various factors that affect the demand for urban travel ? 7
4. (a) What do you understand by minimum path trees and all-or-nothing assignment ? Explain in detail. 7
- (b) Define study area. Also explain the various types and sources of data. 7

5. (a) What is meant by trip distribution ?
Discuss in detail. 7
- (b) Discuss the various data requirements for
traffic impact study. 7
6. (a) Distinguish between Gravity model and
Opportunity model for trip distribution
analysis. 7
- (b) What do you understand by road side
interviews and how are they useful ? 7
7. (a) Write the various elements of transportation
network. 4
- (b) Write short notes on the following : $4 \times 2 \frac{1}{2} = 10$
- (i) Probabilistic Models
 - (ii) Mode Split Curves
 - (iii) Trip Distribution Models
 - (iv) Growth Factor Models
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