

**B.Tech. CIVIL ENGINEERING (BTCLEVI)****Term-End Examination****December, 2015****BICEE-016 : TRANSPORTATION PLANNING***Time : 3 hours**Maximum Marks : 70*


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

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| 1. | (a) | Discuss the characteristics of urban travel.  | 7 |
|    | (b) | Discuss the route split analysis and give its importance in transportation planning.          | 7 |
| 2. | (a) | Differentiate between average factor method and uniform factor method with suitable examples. | 7 |
|    | (b) | Discuss the concept of Gravity model with relevant equations.                                 | 7 |
| 3. | (a) | Distinguish between trip generation analysis and trip distribution analysis.                  | 7 |
|    | (b) | What are the various factors that affect the demand for urban travel ?                        | 7 |
| 4. | (a) | Discuss the Home interview surveys and road-side interviews.                                  | 7 |
|    | (b) | Describe the growth factor model and opportunity model for trip distribution analysis.        | 7 |

5. (a) What is meant by trip generation model ?  
Explain in detail. 7
- (b) Write a detailed note on expansion factors. 7
6. (a) Explain the use of Diversion Curves in  
mode split analysis. 7
- (b) What are the advantages and  
disadvantages associated with the  
aggregated and disaggregated model  
analysis ? 7
7. (a) Describe the methods used for converting  
travel time savings into monetary value. 6
- (b) Write short notes on the following :  $4 \times 2 = 8$
- (i) Zoning
  - (ii) All-or-nothing assignment
  - (iii) Sequential processes
  - (iv) Category analysis
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