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**BICEE-016**

**B.TECH. CIVIL ENGINEERING**

**(BTCLEVI)**

**Term-End Examination, 2019**

**BICEE-016 : TRANSPORTATION PLANNING**

**Time : Three Hours]**

**[Maximum Marks : 70**

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**Note :** Attempt **any five** questions. Assume missing data if any.

**All question carry equal marks.**

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1. (a) What are the different methods of traffic forecasting ? Explain them in detail. [7]
- (b) Explain how the generalised demand price and capacity relationships are applied to travel forecasting. [7]
2. (a) What are the system approach to transport planning ? [7]
- (b) Explain the critical hour concept. [7]
3. (a) Explain with the help of flowchart, stages in the transport planning process. [7]

- (b) How do you determine the capacity of Multi-lane rural highways without access control ? [7]
4. (a) What is Zoning ? How it would helpful for transportation planning system ? [7]
- (b) What are the factors governing Trip generation and attraction rates ? [7]
5. (a) Explain in detail multiple linear regression analysis. [7]
- (b) What is trip distribution ? What are the methods of trip distribution ? [7]
6. (a) What are the demerits of growth factor method ? [7]
- (b) In order to relieve the congestion an urban street network, a motorway proposed to be constructed. The travel time from one zone centroid to another via the proposed motorway is estimated to be 10 min, whereas the time for the same travel via the existing street is 18 min. The flow between the two zone centroids is 1000 vehicles per hour. Assign the flow between the new motorway and existing streets. [7]

7. Write short notes on the following : [3.5×4=14]

- (a) Sequential process
- (b) Multiple route assignment
- (c) Modal splits
- (d) Diversion curves

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