

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

**Term-End Examination**

00923

**June, 2018**

**BICEE-016 : TRANSPORTATION PLANNING**

*Time : 3 hours*

*Maximum Marks : 70*

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***Note :** Attempt any **five** questions. All questions carry equal marks. Assume suitable data wherever necessary. Use of scientific calculator is allowed.*

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1. (a) Write a note on the various stages of transport planning process. 7
- (b) What are the various factors that affect the demand for urban travel ? 7
2. (a) What do you understand by zoning ? Discuss the considerations that are taken into account while dividing the area into different zones. 7
- (b) Write a short note on the procedure of conducting a roadside interview survey. 7

3. (a) Describe the growth factor model and opportunity model for trip distribution analysis. 7
- (b) Make an account of various factors governing the trip generation and attraction rates. 7
4. (a) With the help of neat sketches explain the use of diversion curves in traffic assignment. 7
- (b) Discuss the 'minimum path' technique for trip assignment. 7
5. (a) Explain the recent developments in mode split analysis. 7
- (b) What is the purpose of traffic assignment onto the networks ? 7
6. Write short notes on the following :  $4 \times 3 \frac{1}{2} = 14$
- (a) Study Area
- (b) Sampling Techniques
- (c) Probabilistic Models
- (d) Sequential Processes
7. (a) What are the various assumptions inherent in demand estimation ? 7
- (b) Discuss the various data requirements for traffic impact study. 7