C 21412

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Name..................................

Reg. No..............................

EIGHTH SEMESTER B.TECH. (ENGINEERING) DEGREE EXAMINATION APRIL 2017

CE/PTCE 09 803 L16—URBAN TRANSPORTATION PLANNING

(2009 Admissions)

Time : Three Hours

Maximum : 70 Marks

Part A

Answer all questions.

1. (a) Define PCU.

   (b) What is traffic zoning ?

   (c) What are the various model used in transportations planning ?

   (d) What is coding the network ?

   (e) Define trip.

(5 × 2 = 10 marks)

Part B

Answer any **four**

2. (a) What are the components of urban transportation system ?

   (b) Explain home interview survey.

   (c) What is trip opportunity model ? Explain.

   (d) Explain minimum path trees.

   (e) Explain the factors of trip attraction model.

   (f) What are the types and sores of data for trip generation ?

(4 × 5 = 20 marks)

Part C

Answer according to choice :

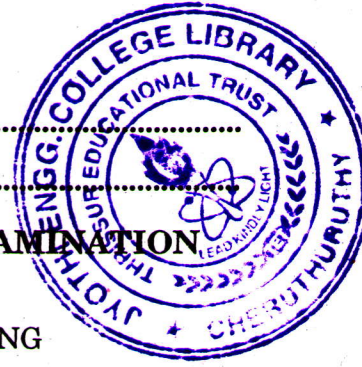3. (a) Give the importance of urban transportation planning processes. What are concepts in it ?

Or

   (b) What are the assumptions in travel demand estimation ? Explain travel attributes.

4. (a) How to fix zoning in traffic systems ? Give the source of data for traffic zoning ? What are the attributes for zoning ?

Or

Turn over

(b) Explain category analysis in trip generation model ? How it differ from other models.

5. (a) What is trip distribution model ? Explain few models by comparing merits and demerits ?

Or

(b) Develop a model for the following :

Education trips	12	14	19	20	21
School population	20	24	28	32	36

6. (a) Give the importance of competing modes and mode split curves. How these useful in route split analysis.

Or

(b) What are the elements of transportation networks. Explain each and every elements.

(4 × 10 = 40 marks)