

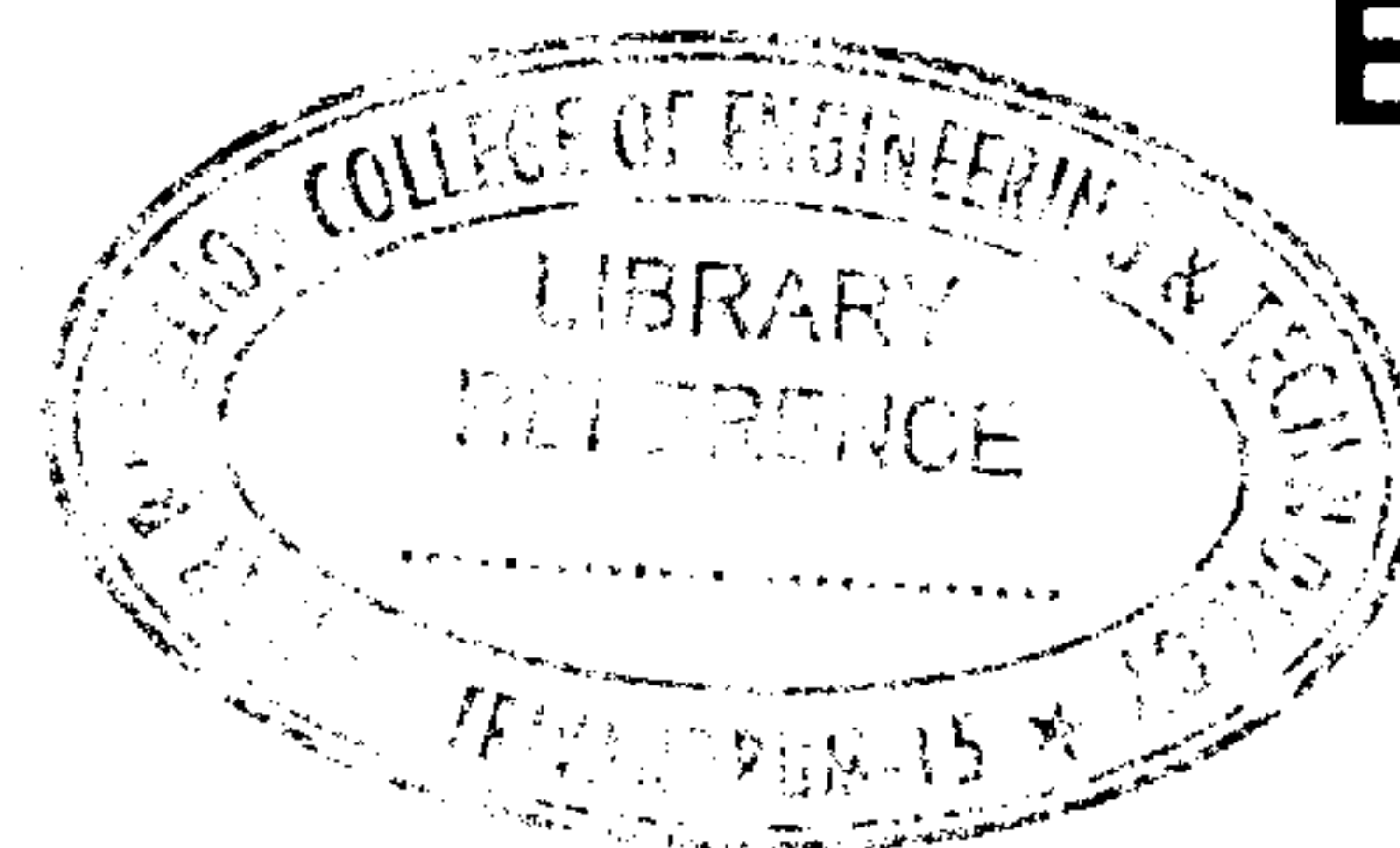


(Pages : 2)

B – 3437

Reg. No. :

Name :



**Seventh Semester B.Tech. Degree Examination, December 2016
(2013 Scheme)**

13.705.7 : TRANSPORTATION PLANNING (C) (Elective – II)

Time : 3 Hours

Max. Marks : 100

PART – A

Answer **all** questions.

1. What are the different data needed for the transportation planning process ?
2. Distinguish between the aggregate and dis-aggregate approach of travel demand estimation.
3. What are the advantages and disadvantages of growth factor method of trip distribution ?
4. Describe the capacity restrained method of trip assignment technique.
5. Describe the effects of Landuse-transport interaction. **(5×4=20 Marks)**

PART – B

Answer **any one** full question from **each** Module. **Each** question carries **20** marks.

Module – I

6. a) Explain with flow chart the various elements involved in the transportation planning process. **10**
- b) What is meant by Zoning ? List out the various factors to be considered while zoning the study area for transportation planning. **10**

OR

7. a) Discuss the importance of sample size in transportation planning data collection and its significance. **10**
- b) Discuss in detail the steps to be followed in conducting home-interview survey for data collection. **10**

P.T.O.



Module – II

8. a) Discuss the regression analysis methods travel demand estimation. 10
b) What are the factors influencing trip distribution and trip generation. 10

OR

9. a) What is meant by calibration of gravity model ? Discuss the procedure for the calibration of gravity model for trip distribution. 10
b) Explain the principles of the opportunity models of trip distribution. 10

Module – III

10. a) Describe the development of behavioural mode choice models for modal split analysis. 10
b) Discuss the applications of Probit models for modal split analysis. 10

OR

11. a) Discuss the concept of capacity restraint method of traffic assignment. What are the merits of this method over other methods ? 10
b) Discuss the applications of Diversion cures for trip assignment. 10

Module – IV

12. Explain with the flow diagram the structure of Lowry Landuse-transport model and its features. 20

OR

13. Describe the features and replications of any two transportation planning softwares. 20

