

(Pages : 3)

H – 3281

Reg. No. :

Name :

Eighth Semester B.Tech. Degree Examination, November 2019

08.807.5 Elective – V – TRANSPORTATION PLANNING (C)

(2008 Scheme)

Time : 3 Hours

Max. Marks : 100

PART – A

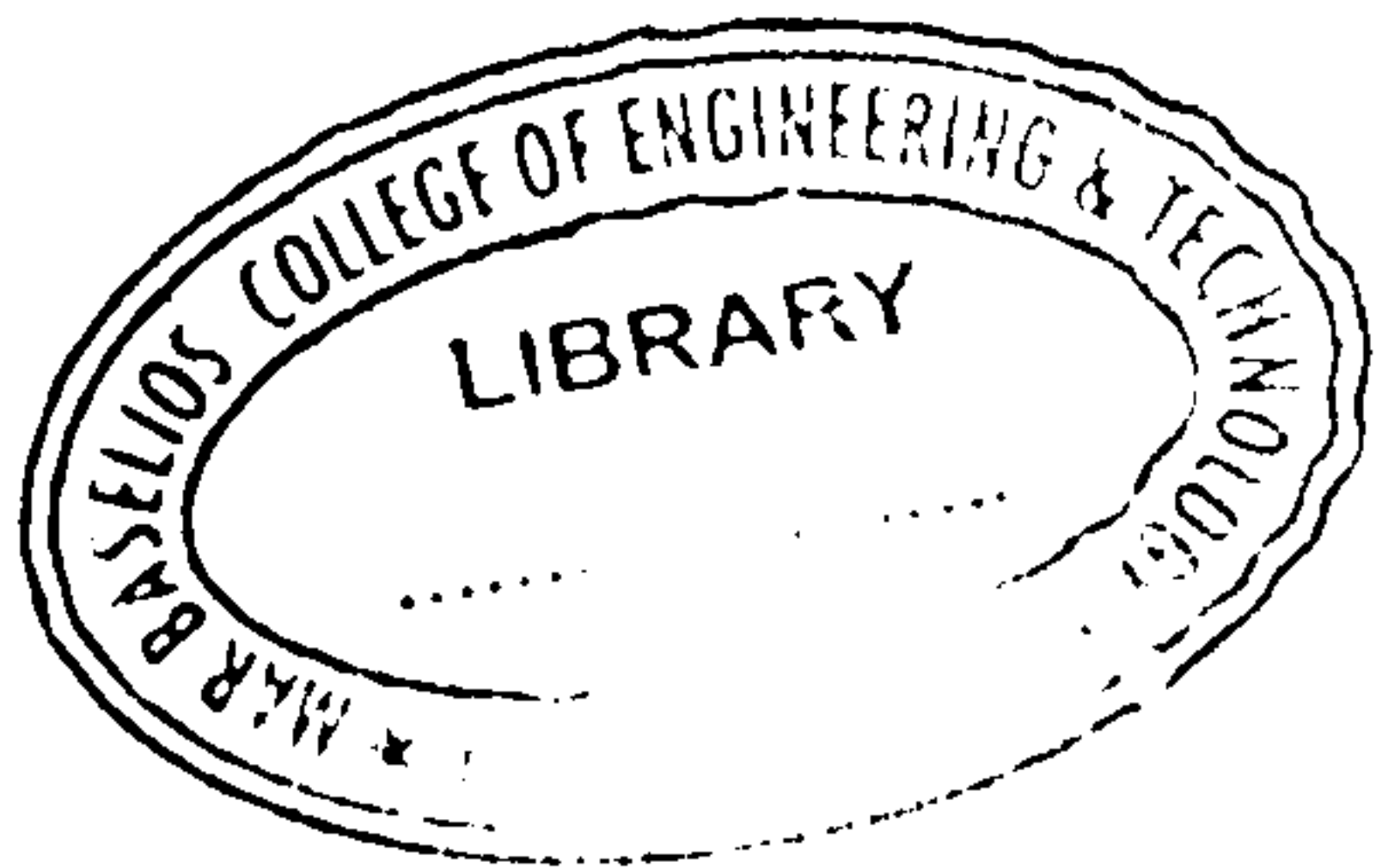
Answer **all** questions :

- I. (a) What are the elements of transportation planning process?
- (b) Distinguish between goals, objectives and standards with respect to transportation planning process.
- (c) Describe the guidelines for zoning of an urban area.
- (d) What do you meant by travel attributes? Briefly explain
- (e) Distinguish between cross classification and category analysis.
- (f) What are the purposes of trip assignment? Discuss briefly
- (g) List the factors influencing mode choice.
- (h) Write a note on Intelligent Transportation Systems.

(8 × 5 = 40 Marks)

P.T.O.





PART – B

Answer **one** question from each Module.

Module – I

- II. (a) Explain the evolution of transportation planning process.
- (b) With the help of a flow chart explain the systems approach of transportation planning process. **20**

OR

- (c) What are the different methods of conducting O-D surveys? Explain any two in detail.
- (d) Describe how inventory of existing transport facility is carried out as part of transportation planning process. **20**

Module – II

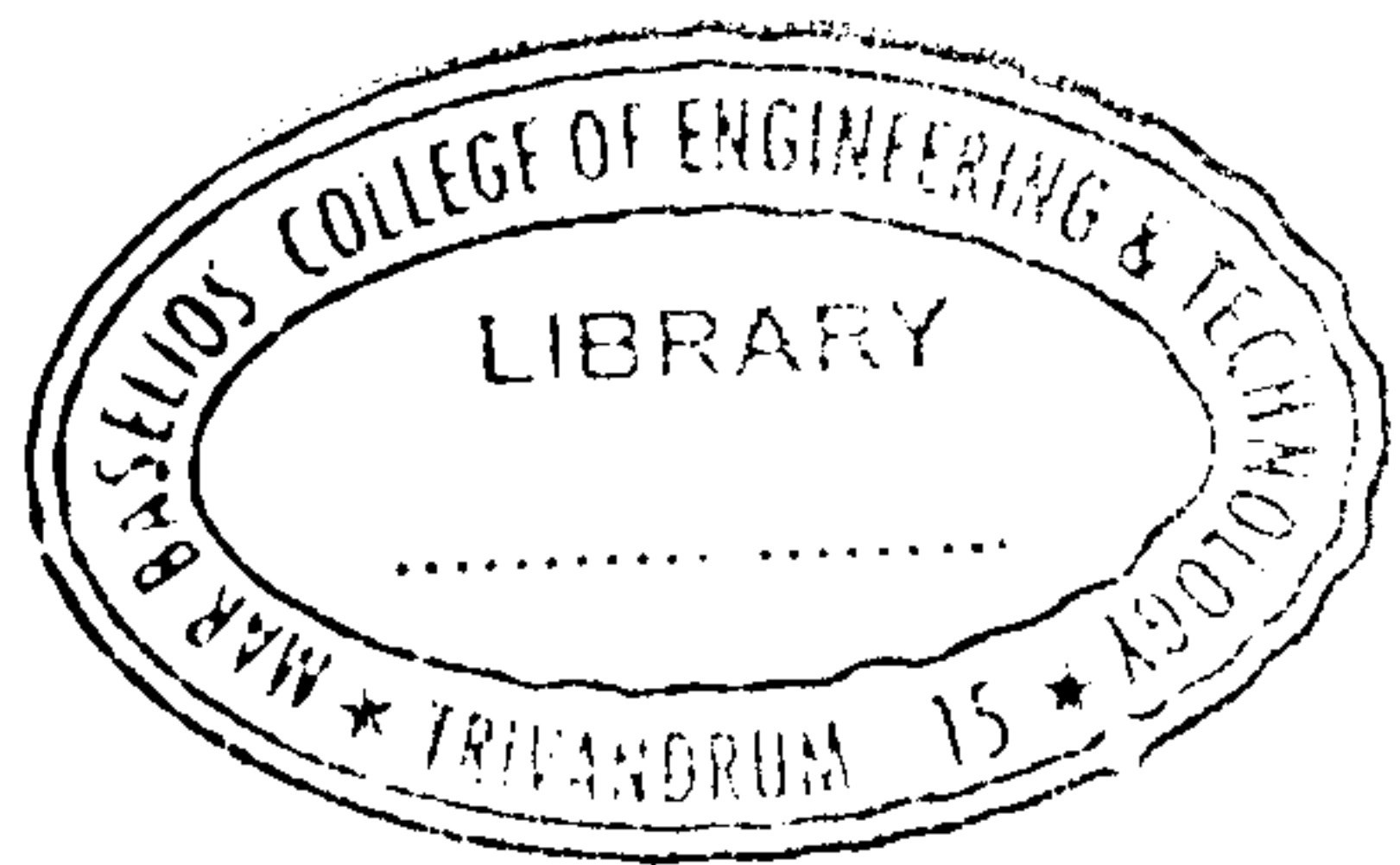
- III (a) Differentiate between the sequential and simultaneous models of urban transportation planning.
- (b) Explain the theory of multiple regression technique for estimating trip generation and the statistical tests that are conducted for the calibration of the model. **20**

OR

- (c) Explain gravity model of trip distribution with the help of its basic equation.
- (d) Estimate the future year trip distribution from the following base year data using average growth factor method. **20**

Zone	A	B	C	Growth Factor
A	0	50	100	2
B	50	0	150	3
C	100	150	0	4





Module – III

- IV. (a) Distinguish between all or nothing and capacity restrained methods of trip assignment.
- (b) What are diversion curves? Explain. **20**

OR

- (c) Distinguish between trip end and trip interchange model split models.
- (d) Discuss the detrimental effects of traffic on environment. **20**
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