

**BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI
(END SEMESTER EXAMINATION)**

**CLASS: BTECH
BRANCH: CIVIL ENGINEERING**

**SEMESTER : VI/ V WITHDRAWAL
SESSION : SP/2025**

SUBJECT: CE437 TRANSPORTATION PLANNING

TIME: 3 Hours

FULL MARKS: 50

INSTRUCTIONS:

1. The question paper contains 5 questions each of 10 marks and total 50 marks.
 2. Attempt all questions.
 3. The missing data, if any, may be assumed suitably.
 4. Before attempting the question paper, be sure that you have got the correct question paper.
 5. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.
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- Q.1(a) How Transportation Planning is different from Traffic Engineering? [5] CO1 BL K2
Q.1(b) Discuss about the future transport solutions for urban areas. [5] CO1 K1

- Q.2(a) Discuss the classification of urban goods movement. [5] CO2 K1
Q.2(b) Discuss any five urban road system with diagram. [5] CO2 K1

- Q.3(a) Write short notes on Fratar Model of Trip Distribution. [5] CO3 K1
Q.3(b) The distribution of present trips among the zones A, B and C are given in O-D Matrix. [5] CO3 K5
Calculate the future trips among the zones using Uniform Growth Factor Method.

O/D	A	B	C	T _{ij}
A	60	100	200	360
B	100	20	300	1260
C	200	300	20	3120

- Q.4(a) Explain with neat sketch about the basic movements in transportation survey [5] CO4 K2
Q.4(b) How Cordon Line Survey is different from Innovative commercial vehicle tracking? [5] CO4 K2
Discuss.

- Q.5(a) Discuss various models of Transportation Land Use Model. [5] CO5 K1
Q.5(b) Discuss the various components of Transportation/Land Use System. [5] CO5 K1

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