

Name:

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, May 2019

Course: Transport Planning
Program: B Tech Civil Engineering
Course Code: CEEG 468

Semester: VI
Time 03 hrs.
Max. Marks: 100

Instructions: Answers of same section is to be answered at one place

SECTION A (Answer All Questions)

S. No.		Marks	CO
Q 1	Define Land-use.	4	1
Q 2	Define All or nothing assignment.	4	2
Q 3	List various methods of economic evaluation.	4	3
Q 4	List types of Mass transport systems.	4	4
Q 5	What is the need for evaluation of a transport model?	4	3

SECTION B (Answer All Questions)

Q 6	Explain the various stages transport planning process.	10	1
Q 7	Explain the factors affecting trip generation.	10	2
Q 8	Briefly describe the methods of Modal Split.	10	3
Q 9	Elaborate the requirements of MRTS. (OR) Describe the features of MRTS in India.	10	4

SECTION-C (Answer any two of 11 & 12, 10 being compulsory)

Q 10	Form the regression equation for the following data and comment on the same			20	2
	Traffic	Population	No. residents working		
	1233	4456	889		
	1322	3587	687		
	3211	5600	2400		
	1123	4562	786		
	1223	5476	897		
	3221	7688	1978		
1123	3224	781			
11	Analyze the pros and cons of introducing a mass transportation system over the private transportation system with reference to travel time, network and pollution in class B city and a Metropolitan city. Support your answers with valid arguments.			20	4
12	Explain the scope of Transport planning and System Engineering. Explain the several plans to be formulated for evaluation.			10 each	1,3

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SECTION A (Answer All Questions)

S. No.		Marks	CO
Q 1	How is photography used in traffic surveys?	4	1
Q 2	List demerits of category analysis.	4	2
Q 3	Define testing in evaluation.	4	3
Q 4	How to overcome parking problem by the use of Mass transport	4	4
Q 5	Define Modal Split	4	3

SECTION B (Answer All Questions)

Q 6	Explain the various stages of arriving at a feasible transport network.	10	1
Q 7	Explain the factors affecting trip distribution.	10	2
Q 8	“Modal split Model is largely affected by traffic distribution and traffic assignment” – Support the statement with valid reasons.	10	3
Q 9	Elaborate the requirements of BRTS. (OR) Explain how MRTS is effecting the economy of the country.	10	4

SECTION-C (Answer any two of 11 & 12, 10 being compulsory)

Q 10	<p>The base year trip matrix for a study area consisting of three zones is given below</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 20%;">zones</th> <th style="width: 20%;">1</th> <th style="width: 20%;">2</th> <th style="width: 20%;">3</th> </tr> </thead> <tbody> <tr> <td>1</td> <td style="text-align: center;">234</td> <td style="text-align: center;">243</td> <td style="text-align: center;">342</td> </tr> <tr> <td>2</td> <td style="text-align: center;">433</td> <td style="text-align: center;">334</td> <td style="text-align: center;">343</td> </tr> <tr> <td>3</td> <td style="text-align: center;">432</td> <td style="text-align: center;">332</td> <td style="text-align: center;">423</td> </tr> </tbody> </table> <p>The production from the zone 1, 2 and 3 for the horizon year is expected to grow to 950, 1200 and 1200 respectively. The attraction from these zones is expected to increase to 1150, 950 and 1250 respectively. Compute the trip matrix for the horizon year using double constrained growth factor model using Furness method.</p>	zones	1	2	3	1	234	243	342	2	433	334	343	3	432	332	423	20	2
zones	1	2	3																
1	234	243	342																
2	433	334	343																
3	432	332	423																
11	Explain the problems of Urban Transport and Suggest a Mass transport system for a Metropolitan city and a Cosmopolitan city support with valid reasons.	20	4																
12	Explain transportation modelling. Explain the basic principles of economic evaluation.	10 each	1,3																