Reg No.:_____ Name:_____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

EIGHTH SEMESTER B.TECH DEGREE EXAMINATION, MAY 2019

Course Code: CE472

Course Name: TRANSPORTATION PLANNING

Max. Marks: 100 Duration: 3 Hours

PART A

Answer any two full questions, each carries 15 marks. Marks

1	a)	Briefly describe the basic steps in systems planning process.	(5)
	b)	Explain the various issues and challenges in transportation planning process.	(5)
	c)	Write down a review of transport systems and technology.	(5)
2	a)	What is a comprehensive mobility plan? Explain.	(5)
	b)	Write a brief note on the integration of different modes of transport.	(5)
	c)	Discuss the contribution of transport towards Noise and Air pollution.	(5)
3	a)	Explain the role of transportation in the development of a society.	(2)
	b)	Explain various constraints in transportation planning process.	(6)
	c)	Explain, with the help of a figure, the relationship between movement and accessibility.	(7)

PART B

Answer any two full questions, each carries 15 marks.

4	a)	Explain zoning and study area.	(4)
	b)	Explain the use of Cordon lines and Screen lines in data collection	(4)
	c)	Explain the inventories in transportation planning process.	(7)
5	a)	Explain the assumptions, evaluation criteria, advantages and disadvantages of Regression analysis.	(10)
	b)	Explain growth factor method in detail.	(5)
6	a)	Explain urban structures and its characteristics.	(7)
	b)	Explain the category Analysis. What are the advantages of category analysis?	(4)
	c)	Discuss about various factors affecting trip generation and trip attraction.	(4)

PART C

Answer any two full questions, each carries 20 marks.

7	a)	Explain diversion curves with all relevant graphs and equations.	(10)

	b)	Explain various terminologies used in transport network representation	(4)
	c)	Describe All or Nothing assignment with an example.	(6)
8	a)	Explain Lowry derivative models with all relevant flow charts and equations.	(10)
	b)	Explain transport solutions for non transport problems.	(10)
9	a)	What is traffic assignment? Explain the algorithm for capacity restraint traffic assignment technique.	(10)
	b)	Explain quick response techniques.	(10)

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