Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

ME – SEMESTER I (NEW) EXAMINATION – SUMMER 2017

Subject Code: 2714803 **Date:11/05/2017**

Subject Name: Infrastructure & Transportation Planning

Time:02:30 p.m. to 05:00 p.m. **Total Marks: 70**

Instructions:

1. **Attempt all questions.**
2. **Make suitable assumptions wherever necessary.**
3. **Figures to the right indicate full marks.**

Q.1	**(a)**	Provide detailed classification of urban infrastructure types.	**07**
	(b)	Describe the significance and importance of urban infrastructure services.	**07**
Q.2	**(a)**	Mention criteria for land are requirement for various social infrastructure.	**07**
	(b)	What are the criteria for selecting ideal location of a fire station?	**07**
		OR	
	(b)	What are the criteria for selecting ideal location of a Water Treatment Plant? Support your answer with an example.	**07**
Q.3	**(a)**	Why population projection is essential? Classify the methods of population projection. Explain any one in detail.	**07**
	(b)	Prepare a detailed note on losses in water distribution network.	**07**
		OR	
Q.3	**(a)**	Explain the process of sewage treatment plant.	**07**
	(b)	Explain the importance of storm water management in an urban are.	**07**
Q.4	**(a)**	Enlist methods of solid waste treatment.	**07**
	(b)	Enlist various stages and explain the solid waste management system.	**07**
		OR	
Q.4	**(a)**	Prepare a detailed note on energy & power distribution network in an urban area.	**07**
	(b)	Enlist various methods of firefighting. Explain any two in detail.	**07**
Q.5	**(a)**	Prepare an explanatory note on types of transport systems.	**07**
	(b)	What are the transport problems and mobility issues in an urban area?	**07**
		OR	
Q.5	**(a)**	What surveys and studies are performed for traffic and transportation planning? Prepare a list of surveys and explain any two in detail.	**07**
	(b)	Explain the concept of trip generation and trip distribution.	**07**

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