Seat No.:	Enrolment No.
Jean 110	Linoincht 110.

GUJARAT TECHNOLOGICAL UNIVERSITY

ME – SEMESTER-1 (NEW) EXAMINATION – WINTER 2016

Subj	ect Code: 2713306 Date:06/01/2017	
Time	e: 2:30 pm to 5:00 pm	
Instru	 Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks. 	
(a)	Discuss the importance of water supply and drainage for sustainable urban planning. Support your answer with necessary examples.	07
(b)	Enlist and explain all necessary considerations for the planning of water supply scheme in urban area. Also draw a neat sketch of water supply scheme.	07
(a)	Justify the significance of Road Side Drainage for Urban Storm water Drainage. Also mention its design consideration in brief.	07
(b)	Discuss various governing factors for the preparation of feasibility study of water supply scheme.	07
(b)	Signify the consideration of losses in water supply and also discuss the remedial measures to reduce such losses.	07
(a)	Enlist and explain various types of pipes used with their relative advantages and	07
(b)	Describe about service reservoir and balancing reservoir in detail.	07
(a)	How do you see the importance water supply distribution network and storm water drainage for flood reduction in urban area.? Support your answer with appropriate	07
(b)	Enlist and explain various factors affecting the selection of pumps for water supply scheme.	07
(a)	What does storm water drainage mean? Explain the storm water design process step by step.	07
(b)	What is SCADA? How do you see the role of SCADA for effective water supply distribution scheme?	07
(a) (b)	Write short notes on:	07 07
(a)		07
(b)	Discuss the role of computer softwares in planning and designing of water supply scheme.	07
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(a)	Mention the recommended guidelines given by CPHEEO for the following criteria in the design of distribution system (1) Peak Factor (2) Service Reservoir	07
(b)	Describe the role of EPANET and its advantages.	07
	(a) (b)	Subject Name: Water Supply and Drainage Time: 2:30 pm to 5:00 pm Instructions: 1. Attempt all questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks. (a) Discuss the importance of water supply and drainage for sustainable urban planning. Support your answer with necessary examples. (b) Enlist and explain all necessary considerations for the planning of water supply scheme in urban area. Also draw a neat sketch of water supply scheme. (a) Justify the significance of Road Side Drainage for Urban Storm water Drainage. Also mention its design consideration in brief. (b) Discuss various governing factors for the preparation of feasibility study of water supply scheme. (b) Signify the consideration of losses in water supply and also discuss the remedial measures to reduce such losses. (a) Enlist and explain various types of pipes used with their relative advantages and disadvantages. (b) Describe about service reservoir and balancing reservoir in detail. OR (a) How do you see the importance water supply distribution network and storm water drainage for flood reduction in urban area.? Support your answer with appropriate example. (b) Enlist and explain various factors affecting the selection of pumps for water supply scheme. (a) What does storm water drainage mean? Explain the storm water design process step by step. (b) What is SCADA? How do you see the role of SCADA for effective water supply distribution scheme? OR (a) Discuss rational and minimum cost design method of designing the storm sewer in detail. (b) Write short notes on: (1) Intake Well (2) Hardy cross method (a) Discuss various appurtenances used in water supply distribution and their significance. (b) Discuss he role of computer softwares in planning and designing of water supply scheme. OR (a) Mention the recommended guidelines given by CPHEEO for the following criteria in the design of distribution system (1) Peak Factor (2) Service Reservoir
