

GUJARAT TECHNOLOGICAL UNIVERSITY

BE- SEMESTER-V (NEW) EXAMINATION – WINTER 2020

Subject Code:3154012 Date:22/01/2021

Subject Name:Infrastrucure Utilities

Time:10:30 AM TO 12:30 PM Total Marks: 56

Instructions:

- 1. Attempt any FOUR questions out of EIGHT questions.
- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

			MARKS
Q.1	(a)	What is duct? Mention factors affecting the duct Designing.	03
	(b)	Explain about different types of renewable energy systems.	04
	(c)	Explain RFID architecture with its application.	07
Q.2	(a)	What is power modulator?	03
	(b)	Explain the types of UPS.	04
	(c)	Explain different types of Hydro Power Plants with diagrams.	07
Q.3	(a)	Safety measures while using Escalators	03
•	(b)	Explain various types of heat gains in a space from	04
		internal and external sources using graphical representation.	
	(c)	Write a short note on installation requirement of firefighting system for buildings.	07
Q.4	(a)	write any three: Dry bulb temperature, Wet bulb temperature, Dew point temperature, Relative humidity, specific humidity	03
	(b)	Explain water sprinkler system for firefighting.	04
	(c)	What is Air conditioning? Explain Vapor compression	07
		cycle with sketch.	
Q.5	(a)	Define Double Pipe Stack System	03
	(b)	Explain the difference between the Single Stack System and Single Pipe System.	04
	(c)	Enlist Water Distribution system and explain any one in detail with sketch.	07
Q.6	(a)	Enlist different types of pipe system being used for	03
	(b)	plumbing of house Describe Dead End System of pipe network distribution	04
		system for water supply with its advantages and disadvantages.	
	(c)	Explain typical house plumbing system with neat sketch	07
Q.7	(a)	Differentiate between switch and hub.	03



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(c)	Describe five components of data communication with	07					
	types of data flow in communication.						

Q.8	(a)	Define different type of wireless transmission	03
	(b)	Differentiate between star and ring network topology.	04
	(c)	Explain GPS in detail with its functionalities.	07

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