

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VIII(NEW) EXAMINATION – WINTER 2022****Subject Code:2180709****Date:16-12-2022****Subject Name:IOT and Applications****Time:10:30 AM TO 01:00 PM****Total Marks:70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Simple and non-programmable scientific calculators are allowed.

		MARKS
Q.1	(a) Draw reference model of IoT.	03
	(b) Draw GAMBAS system architecture for smart city.	04
	(c) Discuss various FP7 projects.	07
Q.2	(a) Explain strategic business aspects.	03
	(b) Draw IoT Deployment and operational View.	04
	(c) Explain I-GVC using figure	07
	OR	
	(c) Explain Butler project	07
Q.3	(a) What is IoT Domain Model?	03
	(b) Design of IoT for Oil and Gas Industry.	04
	(c) Explain layered IOT architecture using figure.	07
	OR	
Q.3	(a) Discuss Advantages and disadvantages of IoT	03
	(b) Explain Brownfield IoT..	04
	(c) Design ITU-T IoT Reference Model.	07
Q.4	(a) Explain smartie approach for IoT.	03
	(b) Explain security challenges of the Internet of Things.	04
	(c) Explain design and deployment challenges of the IOT.	07
	OR	
Q.4	(a) Explain Research directions of IoT.	03
	(b) Explain Characteristics of the IoT	04
	(c) Explain Architecture of M2M	07
Q.5	(a) Explain vision of IoT.	03
	(b) Write 3 steps to use IoT Information Model.	04
	(c) Design ETSI M2M High Level Architecture.	07
	OR	
Q.5	(a) Define Smart Objects in IOT.	03
	(b) Explain Time for Convergence for IoT in detail.	04
	(c) Explain eHealth IOT applications.	07
