

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER– VIII (New) EXAMINATION – WINTER 2019****Subject Code: 2180709****Date: 29/11/2019****Subject Name: Iot And Applications****Time: 02:30 PM TO 05:00 PM****Total Marks: 70****Instructions:**

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

		MARKS
Q.1	(a) Discuss Advantages and disadvantages of IoT	03
	(b) Define IoT. Explain Characteristics of the IoT	04
	(c) Explain different components of IoT system	07
Q.2	(a) Explain Research directions of IoT.	03
	(b) Discuss in detail smart health application of IoT	04
	(c) Explain Architecture of Internet of Things.	07
OR		
Q.3	(c) Explain IoT value chain.	07
	(a) Explain Architecture and component of M2M	03
	(b) Explain IoT domain model.	04
	(c) What is global value chain? Explain it with suitable example.	07
OR		
Q.3	(a) Compare M2M with IoT	03
	(b) Explain IoT functional model.	04
	(c) Explain ETSI M2M high-level architecture.	07
Q.4	(a) Explain value creation from big data and serialization.	03
	(b) Explain challenges of the Internet of Things.	04
	(c) Explain ITU-T IoT Reference Model.	07
OR		
Q.4	(a) Explain security concerns for smart home application.	03
	(b) Which is a smart city? What are the features of IoT based smart city?	04
	(c) Explain in brief future factory concepts.	07
Q.5	(a) Explain contributions from FP7 Projects.	03
	(b) Explain IoT for oil and gas industry.	04
	(c) Discuss activity chain 05 - governance, privacy and security issues.	07
OR		
Q.5	(a) Explain smartie approach for IoT.	03
	(b) Write a short note on: Brownfield IoT.	04
	(c) Explain IoT for retailing Industry.	07
