Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE – SEMESTER- VII EXAMINATION-SUMMER 2023

Subject Code: 3171108		t Code: 3171108	Date: 23/06/2023	
Ti	•	t Name: Internet of Things 10:30 AM TO 01:00 PM	Total Marks: 70	
		Attempt all questions.Make suitable assumptions wherever necessaFigures to the right indicate full marks.		
Q.1	(a) (b) (c)	Define IOT. Write the Applications of IOT. Explain IOT Protocols. Explain End to End IOT Architecture in detail.	0: 0- 0'	
Q.2	(a) (b) (c)	Describe Bluetooth and BLE. Write Various characteristics of IOT. Write about IOT Level – 3 and IOT Level – OR	4.	
(b)		Discuss Difference between IOT and M2M.	0'	
Q.3	(a) (b) (c)	Write functionality of XMPP. Define types and configuration of gateways. Explain Message Queue Telemetry Transport Protocol (MQTT). OR		
Q.3	(a) (b) (c)	Write the difference between private cloud and public cloud. What is REST? Write various methods of REST. Explain SDN (Software Define Networking).		
(b) Write Names of Protocols that are u		Define Sensors, Actuators, and Transducers. Write Names of Protocols that are used at Tr	ransport layer protocols of IOT. 0	
	(c)	Explain Constrained Application Protocol (CO) OR	COAP) in detail. 0'	
Q.4	(a) (b) (c)	What is Raspberry Pi? Write Names of Protocols that are used at Link Layer of IOT. Discuss DDS protocol in Detail.		
Q.5	(a)	Define Cloud Computing.	0:	
	(b) (c)	Discuss Zigbee. Explain Challenges in IOT Security. OR	04	
Q.5	(a) (b) (c)	Write the difference between private cloud a Explain Architecture, Layout and Interface of Explain Service Models of Cloud Computing	of Raspberry Pi. 04	
