## GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VI(NEW) EXAMINATION – WINTER 2022			
Subject Code:3160716 Date:15-12-			
Subject Name:IOT and applications			
Time:02:30 PM TO 05:00 PM Total Marks:70			
Instructions:			
mouru		Attempt all questions.	
		Make suitable assumptions wherever necessary.	
		Figures to the right indicate full marks.	
	4.	Simple and non-programmable scientific calculators are allowed.	MARKS
Q.1	(a)		03
	<b>(b)</b>	±	04
	(c)	Draw and explain IOT architecture.	07
Q.2	(a)		03
	<b>(b</b> )	1	04
	(c)	Discuss levels of IOT.	07
		OR	~
	(c)	Discuss various applications of IOT.	07
Q.3	(a)		03
	<b>(b</b> )		04
	(c)	List out types of IOT protocols and explain any one in brief. OR	07
Q.3	(a)	-	03
	(b)	0	04
	(c)	What is BLE? Explain components of BLE.	07
Q.4	(a)	Explain features of Arduino.	03
<b>Z</b>	(b)	•	04
	(c)	Draw and explain Arduino architecture.	07
		OR	
Q.4	(a)	Explain cloud for IOT.	03
	(b)		04
	(c)	Explain interfacing of LED with Raspberry Pi.	07
Q.5	(a)	Explain web of things.	03
-	<b>(b)</b>		04
	(c)	Explain security architecture in detail with diagram.	07
		OR	
Q.5	(a)	What are the challenges of IOT security?	03
	(b)		04
	(c)	Draw the block diagram of Raspberry Pi and explain components	s of <b>07</b>
		Raspberry Pi in brief.	

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