Total N	No. 0	of Questions : 8] SEAT No. :				
<b>P-66</b> 1	17	[Total No. of Pages	: 2			
		[6181]-180				
		B.E. (E & TC)				
MODERNIZED IoT						
(20	19	Pattern) (Semester - VII) (404184E) (Elective - III)				
Time o	21/	Hannal Committee of the Manufacture of the Manufact	70			
		[Max. Marks : ons to the candidates:	70			
111311 ac		Answer Q1 or Q2, Q3 or Q4, Q5 or Q6 and Q7 or Q8.				
2	•	Figures to the right side indicate full marks.				
3,	)	Assume suitable data, if necessary.				
<b>Q1</b> ) a)	)	Explain the RFID middleware architecture [	[6]			
b		What is Z-Wave? Explain the two types of nodes in Z-Wave. [	[6]			
c)	`		[8]			
	,		.0]			
		OR				
<b>Q2</b> ) a)	)	What is RPL? Explain how it is useful in loT implementations. [	[ <b>6</b> ]			
b	)	What is Bluetooth Low Energy? Explain its architecture.	<b>[6]</b>			
c)	)	What is 6 LowPAN? Write a brief overview of 6 LowPAN adaptant	on			
		Layer.	[8]			
		9. S.				
<b>Q3</b> ) a)	)	Describe various features of an aurdino board.	[8]			
b	)	Describe how do you sense the data and upload on the cloud using Rasberry Pi?	ng [ <b>8]</b>			
			4			
		OR OR				
<b>Q4</b> ) a)	)	Describe various ports available on Raspberry Pi board.	[8]			
b	)	Write a program to display temperature and humidity for aurdino boa				
		interfaced with DHT 11 Sensor.	[8]			
		P.T.	0.			

<i>Q</i> 5)	a)	What are the IoT key technologies? Why security is important in	
			[8]
	b)	What are various types of Big Data? Explain in detail.	[8]
		OR	
<b>Q6</b> )	a)	What are the precursors of IoT?	[3]
	b)	What are criteria for selection of sensors in IoT system Design.	[7]
	c)	Write difference between IoT & IoT.	[6]
<b>Q</b> 7)	a)	Write about home automation using IoT.	[10]
	b)	Describe use of loT in plant automation.	[8]
		OR 55	
<b>Q</b> 8)	a)	How IoT will be used to protect environmental loss?	[8]
	b)	Describe use & loT in Health care.	[10]
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[6181]-180