Total No. of Questions: 8]	90	SEAT No. :
PB-4025		[Total No. of Pages : 2
I	[6262]-378	
T.E. (Compute	er Engineering	(Honors)

T.E. (Computer Engineering) (Honors) INTERNET OF THINGS

Internet of Things Architectures, Protocols and

	Systems Programming	
	(2019 Pattern) (Semester - II) (310603)	
<i>Time</i> : 2 ¹ /	2 Hours]	ıx. Marks : 70
Instruction	ons to the candidates:	
1)	Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.	
2)	Neat diagrams must be drawn wherever necessary.	
3)	Assume suitable data, if necessary.	
4)	Vuse of Non-Programmable scientific Calculators is allowed	
Q1) a)	Describe in brief transport layer protocols.	[6]
b)	Explain in detail DCCP.	[6]
c)	Describe in detail SCTP	[5]
	OR	
Q2) a)	Explain the working of DTLS.	[6]
b)	Explain in brief session layer protocols.	[6]
c)	Explain in detail CoAP	[5]
Q3) a)	Explain in detail vulnerabilities security requirements and the	-
		[6]
b)	What is IoT Security Tomography? Explain.	[6]
c)	Describe IoT layered attacker model in detail.	[6]
	OR OR	
		$\mathbf{D} T \mathbf{A}$

Q 4)	a)	Describe Identity Management and Establishment in detail.	[6]
	b)	Describe IoT Security Models.	[6]
	c)	Explain in brief IoT Security Protocols	[6]
Q 5)	a)	Describe the components of Arduino	[6]
	b)	Describe the role of Web/Cloud Services for IoT development.	[6]
	c)	Explain the use of APIs.	[5]
		OR 9	
Q6)	a)	Describe the components of Raspberry Pi. Explain essential features of web APIs.	[6]
	b)	Explain essential features of web APIs.	[6]
	c)	Describe the components of Intel Galileo	[5]
		8,	
Q 7)	a)	Describe the role of IoT for Home Automation	[6]
	b)	Describe the role of IoT for Agriculture applications.	[6]
	c)	Describe the role of IoT for Telecom/5G.	[6]
		OR	
Q 8)	a)	Describe role of IoT for Smart Cities development.	[6]
	b)	Describe the role of IoT for Industry.	[6]
	c)	Describe the role of IoT for Health and Lifestyle	[6]

		CY 36	
		Describe role of IoT for Smart Cities development. Describe the role of IoT for Industry. Describe the role of IoT for Health and Lifestyle	
		86.1	