Total No. of Questions : 8]	200	SEAT No. :	
P472		[Total No. of Pag	es : 2
	[6003] 580		
T.E. (Compute	er Engineering)	(Honors)	
INTER	NET OF THIN	GS	
Internet of Things Architectur	res, Protocols an	d Systems Programm	ing
(2010 Pottom)	(Composton II	(210602)	

tern) (Semester - 11) (310603) *Time* : 2½ *Hours*] [Max. Marks: 70] Instructions to the candidates: Answer Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8. *2*) Neat diagrams must be drawn wherever necessary. Assume suitable data, if necessary. 3) Use of Non-Programmable scientific calculators is allowed Explain the difference between TCP and UDP Protocols? **Q1**) a) **[6]** b) Explain HTTP and CoAP in detail. **[6]** c) What are the responsibilities of transport layer in IoT? [5] Explain DCCP and SCTP protocol in detail. **Q2**) a) [6] Explain MQTT protocol architecture. b) Explain transport layer security protocol? c) Explain IoT vulnerabilities and security challenges. **[6] Q3**) a) What are the misuse cases in IoT security? Explain b) **[6] [6]** Explain IoT Architecture with its layers? c) OR Describe IoT security model. **[6] Q4**) a) Explain key elements in IoT security. b) **[6]** Explain the attacks in different layer of IoT. **[6]** c)

Q_{5}	a)	Describe the components of Arduno.	[6]
	b)	Describe the role of Web/Cloud Services for IoT development.	[6]
	c)	Explain the use of APIs.	[5]
		OR	
Q6)	a)	Describe the components of Raspberry Pi.	[6]
	b)	Explain essential features of web APIs.	[6]
	c)	Describe the components of Intel Galileo.	[5]
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 Health and Lifestyle.	[6]
		OR (S)	
Q8)	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 Telecom/5G.	[6]
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[600	03]-5	And	