Total No.	of Questions : 8]	SEAT No. :
PA-150	06	[Total No. of Pages : 2
	[5926]-126	
	T.E. (Information Techn	nology)
	INTERNET OF THE	NGS
(20	019 Pattern) (Semester - I) (3144	45D) (Elective - I)
Time: 21/2	2 Hours]	[Max. Marks : 70
Instructio	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 necessa	rry.
3)	Figures to the right indicate full marks.	
4)	Assume suitable data, if necessary.	Se S
Q1) a)	Why 6LoWPAN plays important role in IOT.	Explain in detail 6LoWPAN.[8]
b) •	What is advantages of Zigbee? Explain in d	etail Zigbee protocol stack.[9]
	OR) *
Q2) a)	Explain Piconet and Scatternet with Blueto	oth. [8]
b)	Explain data aggregation and dissemination	in detail. [9]
Q3) a)	Draw and explain interfacing of output devi	ce (Relay) using Ardiuno Uno
		C i

b) Why the python is the first choice for the Raspberry Pi language than C or C++? [9]

OR

- Q4) a) Draw and explain interfacing of input device (LED) using Ardiuno Uno with program. [8]
 - b) What is an IOT Device? List different IOT Devices. Explain any 2 devices. [9]
- Q5) a) Explain Data and message security and Non repudiation and availability with respect to IOT security.[9]
 - b) Explain Python Web Application Framework in detail. Explain How different amazon web services can be used for IOT? [9]

OR

Q6) a)	Explain Key elements of IOT Security in details.			
b)	What is threat analysis in IOT? Explain threat analysis in detail.	[9]		
Q7) a)	Explain smart city architecture with diagram also state security and privacy			
	challenges in smart transportation in smart city. [9]			
b)	Explain in detail How IOT can be used in home automation?	[9]		
	OR			
Q 8) a)	Explain how you will design a smart water management system agriculture using IOT.	for [9]		
b)	Explain in detail any two application of health monitoring using IOT. [9]			
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