Total No. of Questions - [8] Paper Godet Total No. of Printed Pages: [2] U359-115/656) Civil U319-125 (ESE) GMP G.R. No. UBSY-145/ESES IT U359-155 (ESG) Mech 4359-135/ESE) G892 **DECEMBER 2019/ENDSEM** T. Y. B. TECH. (COMPUTER ENGINEERING) (SEMESTER - I) **COURSE NAME:INTERNET OF THINGS COURSE CODE: IE31175CS** (PATTERN 2017) Time: [2 Hours] [Max. Marks: 50] () Instructions to candidates: 1) Answer Q.1, Q.2, Q.3, Q.4, Q.5 OR Q.6, Q.7 OR Q.8 Figures to the right indicate full marks. 2) 3) Use suitable data wherever required Q.1) a) Design and explain deployment level three IoT System with [6] suitable example. OR b) Write the two applications of IoT in each of the following field. [6] a) Agriculture b) Medical field c) Industry Q.2) a) Draw the protocol stack for IoT and compare the Traditional [6] Networking Protocols with IoT Protocols OR b) Explain the following in Bluetooth technology. [6] i) Bluetooth range for different classes. Ii) Connection Establishment in Bluetooth. Q.3) a) Compare the capabilities of Arduino and Raspberry Pi [6] OR b) Write a program to design the traffic control system using [6] arduino or Raspberry PI page 1 of 2

	Q.4)	a)	Write any 4 Vulnerabilities of IoT OR	[4]
	a) (g	b)	How threat analysis can be performed for smart phone	[4]
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	Q.5)	a)	Explain system oriented architecture in cloud computing.	[6]
		b)	Write a short note on mobile cloud computing.	[4]
		c)	List the 4 deployment models of Cloud, explain any one of them.	[4]
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	Q.6)	a)	Draw and explain fog computing architecture.	[6]
		b)	What the Challenges and issues are in cloud Computing.	[4]
		c)	Why fog computing is required.	[4]
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	Q.7)	a) b)	Design the system for Home Intrusion Detection	[6]
		b)	Design the system for smart heath care.	[4]
		C)	Design the system for smart vehicle parking.	[4]
			Situation side for	

OR

Q.8)	a)	Design the system for Air Pollution Monitoring,	[6]	
		Design the system for Smart Irrigation	[4]	
	c)	List the components required to design the infant monitoring		
		system.	1.1	

page 2 of 2