(08 Marks)

Eighth Semester B.E. Degree Examination, June/July 2019 **Internet of Things Technology**

Time: 3 hrs

Max. Marks: 80

111	ne: .	3 hrs.		Max. Marks: 80
		Note: Answer FIVE full questions	s, choosing one full question fr	om each module.
			Module-1	
1	a.	What is IOT? Explain in detail on 0		(08 Marks)
	b.	What does IOT and digitaization m		
	C.	Write a short note on "IOT impact	in Real World".	(04 Marks)
			OR	
2	0	Diaguas IOT aballances	OR y	(08 Mayles)
2	a.	Discuss IOT challenges. With a neat diagram, explain archit	tooture of IOT	(08 Marks) (04 Marks)
	b.			(04 Marks)
	C.	Explain Core IOT functional stack.	- Allenania de la companyo	(04 Iviai ks)
			Module-2	
3	a.	List and explain different types of		(08 Marks)
3	b.	Elaborate on small physical objects		(04 Marks)
	c.	Explain "IOT Access Technologies		(04 Marks)
	0.	Explain 101 / leeess reemlologic		4
			OR	Amaga
4	a.	Briefly explain protocol stack utiliz		(08 Marks)
	b.			
		offers.		(08 Marks)
		All and a second second		
			Module-3	
5	a.	Explain working of IP as the IOT i	network layer.	(08 Marks)
	b.	Write note on Busines case for IP.	And the second	(04 Marks)
	C.	Discuss need for optimization.		(04 Marks)
			*	
			OR	
6		Describe application protocols for		(08 Marks)
	b.	Discuss the various methods used	in IOT application transport.	(08 Marks)
		Y. Carlotte	4-4	
			Module-4	mid to
7	a.			(04 Marks)
	b.			(04 Marks)
	C.	With a case study relate the concep	ot of securing IO1.	(08 Marks)
			OB	
			OR	

8

2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8=50, will be treated as malpractice.

Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.

Explain in detail how IT and OT security practices and systems vary in real time. (08 Marks)

Discuss OCTAVE and FAIR formal risk analysis.

Module-5

Give a brief note on Arduino UNO. a.

(04 Marks)

With a neat diagram, explain Raspberry Pi board. **b**.

(04 Marks)

With a neat diagram, explain wireless temperature monitoring system using Raspberry $P_{\rm i}$. c.

(08 Marks)

Explain in detail smart city IOT architecture. 10

(08 Marks)

With the case study explain smart and connected cities using Raspberry Pi.

(08 Marks)