				GBC	S SCHEN	B		
USN]	290		15EC752
Seventh Semester B.E. Degree Examination, Aug./Sept. 2020								
IOT and Wireless Sensor Networks								
Tin	Time: 3 hrs.							arks: 80
	N	ote: Answe	r anv FIVE fi	ull question	ns, choosing ONE	full question f	rom each mo	dule.
			5 5	1				
					Module-1			
1	a.		T and explain					(04 Marks)
	b. c.							
		Enplain a		P.J. Contraction	s und op on source			()
		F 1 . 4			OR	1	1 11 0	19.00
2	a.	Explain 4	layered archite	ecture fram	e work for a smart	application de	veloped by C	1SCO. (06 Marks)
	b.				example in JAVA.			(06 Marks)
	c.	Explain th	e features of T	hingSpeak	and Nimbits.			(04 Marks)
					Module-2	a		
3	a.				net connectivity pr	rotocols where	source and e	
	b.		ected through e main feature				9	(06 Marks) (06 Marks)
	о. с.				gram format for tra	ansmission or h	eader fields.	
					N.Y	A		
4		Eveloie th	a main abaraat	taristics of	OR cloud computing.	9		(06 Marks)
4	a. b.		detail differen					(06 Marks) (04 Marks)
	c.				nt cloud computin	ng service mode	els.	(06 Marks)
					Madula 2			
5	a.	Explain th	e programmin	g embedde	Module-3 d device Arduinop	latform using I	DE.	(08 Marks)
	b.	Write the	sample progr	amming co	ode for the arduit	no controlled t		at the road
		junction w	ithout any inte	ervals by co	onsidering suitable	inputs.		(08 Marks)
					OR			
6	a.			n five level	s for software dev	elopment for a	pplications a	nd services
	1.	for IOT or		vincipanta i	n an IOT referenc	a architactura	and usage of	(06 Marks)
	b.		ts in the securi				ind usage of	(05 Marks)
	.c.				d attacker model a	nd possible atta	cks as the lay	
								(05 Marks)
					Module-4			
7					eless network.			(08 Marks)
	b.		e characteristic ETS (Mobile A					
			Buses and WS					(08 Marks)
					1 of 2			

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages. 2. Any revealing of identification, appeal to evaluator and */*or equations written eg, 42+8 = 50, will be treated as malpractice.

OR

- a. Explain single Hop network, MulitHop network.
 b. Explain the design principles for WSN^S. 8
 - c. Explain WNS Tunnelling.

Module-5

- a. Explain is detail S-MAC protocol. 9
 - Explain LEACH protocol. b.
 - Explain TRAMA protocol. c.

OR

a. Explain in detail the address management in WSN^S 10 b. Explain the address assignment algorithm.

c. Explain the properties required for various clustering in WSN^S.

(06 Marks) (08 Marks) (02 Marks)

(06 Marks) (05 Marks) (05 Marks)

(08 Marks) (04 Marks) (04 Marks)

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