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	Hall	Ticket No											Quest	ion Paper Coo	le: BCSB
Tin	ne:	3 Hours	M.Teo	ch I S			Reg	gulat	ion:	-R DR	18) - January, ORKS		Marks: '
		Al	l part		A	ll Q	uest	tions	Car	ry	Equa	l Ma	n Unit rks in one pla	ce only	
								U	JNIT	_	I				
1.	(a)	Explain ab	out W	irele	ss Se	nsor	Net	twork	Arch	iteo	cture	with 1	neat sketch.		[7N]
	(b)	Define Mot	es. Ex	rplai	n the	con	ipor	nents	invol	<i>v</i> ed	in mo	ote ar	chitecture.		[7N]
2.		Discuss brid Write the i sketch.												r networks. and explain i	[7] t with ne [7]
									UNI	Γ –	II				
3.	(a)) Define Topology. Explain how to build topologies by considering example using ns3 si							simulator [7 N						
	(b)	Illustrate d	ifferen	t qu	eues	used	in l	Netw	ork S	mu	lator-	3(NS3)	3) with example 3)	mples.	[7N]
4.		Define Sime Describe N													[7] [7]
									UNI	[_	III				
5.) Write any two medium acces) Explain discrete time Marko					ss control protocols in WSN and exp ov chain model with example.						d explain w	with an examp	le. [7N [7N
6.	(a) (b)) Elucidate fixed access and random access methods in Medium Access Control Protocols(MA										[7] cols(MAC [7]			
									UNI	['	IV				
7.	(a) (b)) Discuss the counter measures in security with example.) Explain about static and dynamic key distribution of security.								[7] [7]					
8.	(a)	a) Define attack. What are the different						ent t	vpes c	fp	in them brief	y. [7]N			

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(b) Describe SPINS. Explain security protocols for sensor networks related to SPINS.

[7M]



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$\mathbf{UNIT}-\mathbf{V}$

9.	(a)	Explain about resource-aware and broadcast routing protocols in wireless sensor networks.	[7M]
	(b)	Discuss about analysis of opportunistic routing in wireless sensor networks.	[7M]
10.	(a)	Define MANET. Explain the types of MANET protocols.	[7M]
	(b)	Summarize the operations and properties of LEACH protocol.	[7M]

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