Seat No: _____

Enrollment No: _____ PARUL UNIVERSITY

FACULTY OF ENGINEERING & TECHNOLOGY

B.Tech. Summer 2021 - 22 Examination

Same	B. Lech. Summer 2021 - 22 Examinat			
		Time: 10:30 am to 01:00 Total Marks: 60	:00 pm	
	ctions:			
1. All	questions are compulsory.			
	ires to the right indicate full marks.			
	ke suitable assumptions wherever necessary.			
4. Sta	t new question on new page.			
Q.1	Answer the following.		(15)	
	1 Wireless network can operate without the supp	-		
	2 Network required fixed infrastructure to operat			
	3. A node is a node added by Intruder in the network	and feed false data of block the		
	passage of True data.			
	(a) False node (b) Cooperative node (c) Non Cooperative node			
	4. The routing is also referred to as table driven,	-		
	of routing information to maintain consistent and accurate routin network.	g tables across all nodes of the		
	(a) Proactive (b) reactive (c) hybrid	(d) distributed		
	 Bluetooth system operates in the ISM band (Industrial Scientification) GHz. 	fic Medicine) at the frequency		
	(a) 2 (b) 2.4 (c) 3	(d) 3.2		
	6. In Bluetooth, during mode, the slave listens for packet	transmission from the master.		
	(a) Active (b) park (c) sniff	(d) hold		
	7occurs when two or more sensor nodes attempt to	o transmit simultaneously.		
	(a) Congestion (b) Collision (c) Idle listening (d) Over hearing	-		
	8. Category-2 of wireless sensor network uses routing	-		
	9. Category-1 of wireless sensor network follows top			
	10 Attacks are active attacks which are executed by no			
	11 is the nodes that is hidden (or not reachable) from	the sender of data transmission		
	session, but are reachable to the receiver for the session.			
	12. The responsibility of protocol include exchanging	ng the root information, finding		
	a feasible path to a destination based on hop length, minimum p the wireless link.	power required and life time for		
	13. A network is a collection of large number of sense	or nodes that are deployed in a		
	particular region.	alternate nother for data transform		
	14. Thetopology of wireless networks provides many	alternate pains for data transfer		
	session between source and destination.	a . P		
•••	15 Wireless network uses distributed routing for	path discovery.		
Q.2	Answer the following questions. (Attempt any three) A) Briefly explain the design issues in routing protocols.		(15)	
	B) Write brief note on Wireless sensor network.			
	C) State the comparisons between wireless Ad-hoc network and wir	eless sensor network.		
	D) Draw and explain the hardware architecture of sensor node.			
Q.3	A) List out the sources through which energy of the sensor node was network.	sted in wireless sensor	(07)	
	B) Explain SPIN protocol in detail.		(08)	
	OR		. /	
	B) List out the advantages and disadvantages of schedule based MA	C protocol.	(08)	
0	A) Write brief note on PEGASIS protocol.		(07)	
Q.4	OR			
Q.4		the in the WONT		
Q.4	A) Write brief note on ESRT and PSFQ protocol for data disseminateB) List out various Network management protocols in WSN and exp		(07) (08)	