Paper / Subject Code: 52974 / Wireless Networks

4/12/2024 EXTC SEM-VIII C SCHEME WIRELESS N/W QP CODE: 10065159

		Duration: 3nrs [Max Marks: 80]	
N.F	3.:	 Question No 1 is Compulsory. Attempt any three questions out of the remaining five. All questions carry equal marks. Assume suitable data, if required and state it clearly. 	N. S.
1		Attempt any FOUR	[20]
	a	Illustrate the architecture of a wireless networks.	
	b	Explain Zigbee topologies with proper diagram.	
	c	Discuss characteristics of VANETs.	
	d	Recommend a need of link budget analysis and its requirement in wireless network.	
	e	Explain the characteristics of Wireless Mesh Networks	
2	a	Write a short note on IEEE 802.11.	[10]
	b	What are the factors influencing design of Wireless Sensor Network. Describe	[10]
		the components of a sensor node.	
3	a	Describe WBAN architecture with its applications.	[10]
	b	Explain UWB technology with radio specifications and architecture.	[10]
4,	a	Compare Adhoc and Cellular Networks.	[10]
	b	Draw the suitable diagrams for the downlink and uplink link budgets for GSM	[10]
		1800 and give their equations of signal received(S) and noise (N).	
5	a	Construct WiMAX network architecture. Review the features of WiMAX.	[10]
	b	Write short note on 6LoWPAN.	[10]
6	a	Explain the RTS/CTS mechanism in MACA protocol used to solve the problems	[10]
-	35	of Hidden and Exposed node	[]
	b	Describe architecture of IoT with any one example. Explain M2M	[10]
	45	communication.	[10]
