CBCS SCHEME

17MT551

(10 Marks)

Fifth Semester B.E. Degree Examination, July/August 2021 Wireless Networks and Communication

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions.

1	a.	Discuss wireless communication problems encountered in wireless network.	(10 Marks)
	b.	Explain how wireless networks are classified on basis of range and application.	(10 Marks)
2	a.	Explain wireless switching technologies.	(06 Marks)
	b.	For a given communication system, transmitter operates at a frequency of 8501	
		power of 125m watt. This transmitter communicates with the receiver having t	
		power of 1µw. What is the distance between the transmitter and receiver?	(04 Marks)
	C.	Give comparison of important standards used for wireless communication	
		network.	(10 Marks)
3	a.	Explain network architecture and components in WBAN.	(10 Marks)
	b.	Discuss WBAN routing protocols in network layer.	(10 Marks)
4	a.	Explain with neat diagram WPAN architecture and its topologies.	(10 Marks)
	b.	Explain with neat diagram Zigbee protocol stack.	(10 Marks)
5	0	Explain quadrature phase shift keying modulation and demodulation technique.	(10 Marks)
3	a. b.	Explain OFDM modulation and demodulation technique.	(10 Marks)
	U.	Explain of Divi modulation and demodulation technique.	(10 1.141110)
6	a.	Explain diversity technique in wireless communication.	(10 Marks)
	b.	Explain: i) Ultra wide band radio technology ii) Speech coding.	(10 Marks)
7	a.	Explain WLAN architecture and network components.	(10 Marks)
	b.	Explain architecture and network components of WMAN.	(10 Marks)
0		Will the COM active de auditecture	(10 Marks)
8	a.	With neat diagram, explain GSM network architecture.	(10 Marks)
	b.	Explain CDPD network architecture, key features, functions and limitations.	(10 Marks)
9	a.	Discuss quantitative and qualitative features of wireless adhoc network.	(10 Marks)
			(10 Marks)
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10	a.	Explain with diagram Wireless Mesh Network architecture (WMN).	(10 Marks)
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b. Explain the unique characteristics of VANET^s.

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.