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Reg. No. : | | | | | | | | | | |

Question Paper Code: 59413

B.E. / B.Tech. DEGREE EXAMINATION, APRIL 2019

Elective

Electronics and Communication Engineering

15UEC913–WIRELESS NETWORKS AND STANDARDS

(Regulation 2015)

Duration: Three hours | Maximum: 100 Marks

Answer ALL Questions

PART A - (5x 1 = 5 Marks)

1. In _____ methods, no station is superior to another station and none is assigned the control over another. CO1 -R

   (a) Random access (b) Controlled access (c) Channelization (d) None of the above

2. In the third generation of cellular phones, _____ uses TDMA. CO2 -R

   (a) IMT-DS (b) IMT-MC (c) IMT-TC (d) IMT-SC

3. What is the frequency range of the IEEE 802.11b standard? CO3 -R

   (a) 2.4Gbps (b) 5Gbps (c) 2.4GHz (d) 5GHz

4. The device which converts physical phenomenon into electrical signal is known as CO4 -R

   (a) Transducer (b) ADC (c) Sensor network (d) Sensor network

5. Bluetooth is an example of, CO5 -R

   (a) WAN (b) PAN (c) ZAN (d) MAN

PART – B (5 x 3= 15 Marks)

6. Define adaptive channel allocation. CO1- R
7. Write advantages 2G over 1G. CO2 -R
8. List the objectives of sub channelization of WiMax. CO3 -R
9. List the challenges involved in Adhoc network architecture. CO4 -R
10. Compare IEEE 802.16 and Ricochet. CO5 -R

PART – C (5 x 16= 80 Marks)

11.	(a)	Explain in detail the handoff parameters and underlying support.	CO1- U	(16)
		Or		
	(b)	Explain in detail the wireless system security and privacy.	CO1 -U	(16)
12.	(a)	Explain the mechanism of integrated elements of GSM with another one to implement the services in the GSM architecture. Explain with its layered format of communication.	CO2 -U	(16)
		Or		
	(b)	Explain the architecture, location and handoff management in GPRS network.	CO2 -U	(16)
13.	(a)	Explain the physical and MAC layer details of Wi Max in detail.	CO3 -U	(16)
		Or		
	(b)	Classify the types of order statistic filter and demonstrate the operations of order statistic filter.	CO3- U	(16)
14.	(a)	Discuss in detail about Adhoc transport protocols.	CO4 -U	(16)
		Or		
	(b)	Illustrate the characteristic features of Mobile ad hoc Networks and state its applications.	CO4- U	(16)
15.	(a)	Explain in detail about the interference details and the connection management procedure of Bluetooth**.**	CO5 -U	(16)
		Or		
	(b)	Explain in detail about IEEE 802.15(WPAN) architecture **.**	CO5 -U	(16)