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different states.

Reg. No.:					

# **Question Paper Code: 59413**

### B.E. / B.Tech. DEGREE EXAMINATION, NOV 2019

#### Elective

## **Electronics and Communication Engineering**

### 15UEC913-WIRELESS NETWORKS AND STANDARDS

	1301107	15 WIRELESS NET V	Olding Third STITLIDI	IIIDS			
		(Regulatio	n 2015)				
Dura	ation: Three hours			Maximum	n: 100 Marks		
		Answer ALL	Questions				
		PART A - (5x 1	1 = 5  Marks				
1.	The type of access use	CO1 -R					
	(a) FDMA/TDMA (b) CDMA		(c) OFDMA	(d) None of the above			
2.	The uplink frequency of P-GSM system is CO2						
	(a) 1850-1910Mhz	a) 1850-1910Mhz (b) 1710-1785 Mhz (c) 890-915 M			(d) None of the above		
3.	The IEEE 802.11 wire	e IEEE 802.11 wireless LANs use types of frames. CO					
	(a) Four	(b) Five	(c) six	(d) None of the above			
4.	4. The caching and multipath routing protocol (CHAMP) makes use of temporal locality in						
	(a) Dropped Packets	ets (b) Returned Packets (c) Sent Packets		(d) All of the above			
5.	Which of the following		CO5 -R				
	(a) WAN	(b) PAN	(c) ZAN		(d) MAN		
		PART - B (5 x)	3= 15 Marks)				
6.	Compare dynamic channel assignment and fixed channel assignment.						
7.	Determine the capacity of GSM for $k = 3$ .						
8.	What are the functions of physical layer of IEEE 802.11 system?						
9.	. Compare hierarchical routing and flat routing in sensor networks.						
10.	Write Power consumption level changes when a Bluetooth device is in CO5-U						

### $PART - C (5 \times 16 = 80 \text{ Marks})$

11. (a) Explain in detail the methods of data services get integrated with CO1-U (16)Voice Oriented Networks. Or (b) In which handoff, a mobile station can communicate with two base CO1-U (16)stations at the same time. Discuss its operation with example. 12. Explain in detail about GPRS network architecture and its operation. CO2 -U (16)Or Compare the various parameters for WCDMA and CDMA2000. CO2-U (b) (16)13. (a) Compare the Wimax and HIPERLAN standard. CO<sub>3</sub> -U (16)Or Explain any two MAC mechanism used in IEEE 802.11 WLAN CO3-U (16)systems. 14. (a) Explain the source initiated routing protocols for ad hoc networks in CO4 -U (16)detail. Or (b) Explain the key features of routing protocol in WSN and discuss any CO4- U (16)two energy efficient routing protocols. (a) Discuss briefly about parameter optimization technique in detail. 15. CO5 -U (16)Or

Describe in detail about Architecture of Bluetooth Systems.

(b)

CO5-U

(16)