it 7 sem wireless technology dec 2015

QP Code: 6036 ects.com

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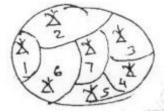
(3 Hours)

[Total Marks: 80

10

N.B.: (1) Questions No. 1 is compulsory

- (2) Solve any three from remaining questions.
- (3) Figures to the right indicate full marks.
- (4) Assume suitable data if necessary
- (a) Consider a single high-power transmitter that can support 100 voice channels covering
 a given service area. Let the service area be divided into seven smaller area/cells. As
 shown in figure, each supported by lower power transmitters. The available spectrum
 of 100 voice channels is divided into 4 groups of 25 Channels each. The cells (1, 7)
 (2, 4) (3, 5) and 6 are assigned distinct channel groups. Show that the total number of
 channels that can be supported is enhanced to 175 to cover the same service area.



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	(b) Explain in detail TDMA, CDMA and FDMA.		10
2.	. (a) Explain in detail the CDMA architecture.		10
	(b) Explain in detail the IEEE 802-11 MAC Layer.		10
3.	. (a) Explain in detail LRWPAN		10
	(b) Compare CDMA 2000 & W-CDMA.		10
4.	. (a) Explain in detail Mobile IP.		10
	(b) Explain possible attacks on wireless LAN and explain WEP in det	tail.	10
5.	. (a) Explain in detail Bluetooth architecture.		10
	(b) Explain in detail GSM architecture	y	
6.	. Write short note on any four.		20
	(a) FHSS and DSSS		
	(b) OFDMA a2zSubjects.com		
	(c) MMDS		
	(d) WLAN Architecture		

WiMAX