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WIRELESS AND MOBILE COMMUNICATION 6th Exam/ECE/ETV/ECE(II)/5761/0761/8164/May'16

Duration: 3 Hrs M. Marks=75

	SECTION A	
Q1	. Answer the following 15x1=15	
a.	What is base station?	
b.	The change in frequency of a wave for an observer moving relative to the source of the wa	ıve
	is	
c.	is most applicable when there is no dominant propagation along a line of sign	ξh
	between the transmitter and receiver.	
	The most widely used standard for cellular communication is	
	Sectoring and splitting in the cellular system increases	
f.	In an FHSS, a transmitter between available frequencies according to a specifi algorithm.	ec
	Each FDMA user is assigned a specific	
	GSM stands for	
	The term MTSO in cellular system means	
-	A is the basic geographic unit of a cellular system.	
	The process of transferring the call, which is in progress from one channel/base station to another called	, is
I.	has a very high spectral efficiency.	
	The mobile equipment is uniquely identified by the	
	Bluetooth is an wireless technology.	
ο.	CDMA base stations consumepower than GSM.	
	SECTION B	
	Attempt Any FIVE Questions 5x6=30	
	Briefly explain the principle of cellular networks.	
	Compare FDMA, CDMA and TDMA techniques.	
	What is a paging system? What are its advantages and disadvantages? Explain the concept of Frequency reuse in cellular system.	
	Explain frequency Hopping spread spectrum.	
	What is GSM technology? What are its features?	
	What is the principle of working of GPRS?	
_	Discuss the concept of co-channel interference.	
	SECTION C	
Q3	. Attempt Any THREE Questions 3x10=30	
a.	How does wireless communication signal propagates? Which factors affects propagation of signals	?
b.	How a geographical area is divided by different cell structures? What is cell splitting?	
c.	What is CDMA? Give its advantages and disadvantages. Compare it with GSM technology.	
d.	Write a short note on any TWO :	
	i) Handoff	
	ii) Bluetooth	
	iii) Cell Sectoring	
e.	What is DTH system? Explain its working with the help of its general block diagram .	