Roll No..... Total No. of page(s): 1

BT-8/D-21: 48139

ECE- 402N:Wireless & Mobile Communication

Time: 3 hrs] [Max. Marks: 75

Note: Attempt five questions in all selecting at least one question from each unit.

Question Number	Description	Marks
	Unit I	
1(a)	Explain how mobile radio communication evolved over a time.	7.5
1(b)	Explain with neat diagram the basic functioning of WLL.	7.5
2(a)	Explain in various steps, how a cellular telephone call is made?	7.5
2(b)	What are the different parameters to be kept in mind at the time of designing any wireless network?	7.5
	Unit II	
3(a)	Compare adjacent channel interference with co channel interference.	7.5
3(b)	Differentiate between fixed and dynamic channel assignment strategies	7.5
4	Explain the following terms 1. FDD and TDD. 2. Forward and control channels 3. Uplink and downlink frequency 4. Soft and hard handoff. 5.Frequency reuse factor	15
	Unit III	
5(a)	Compare similarities and differences in the fundamental concept of direct sequence spread spectrum system versus frequency hopping spread spectrum system.	7
5(b)	Illustrate the advantages of CDMA over TDMA and FDMA	8
6	With reference to TDMA explain 1.Frame structure 2. Burst structure 3. Frame efficiency 4. Frame acquisition and synchronization.	15
	Unit IV	
7(a)	What are the various specifications of IS-95 CDMA.	7.5
7(b)	Describe the functions of various GSM channels.	7.5
8	Explain the following terms in relation to mobility management 1. Hand off management. 2. Location management	15