Exam. Code: 0931 Sub. Code: 6618

2063

B.E. (Electronics and Communication Engineering) Seventh Semester EC-710: Wireless and Mobile Communication

EC-710. Wireless and Mobile Communication	
Time allowed: 3 Hours	Max. Marks: 50
NOTE: Attempt <u>five</u> questions in all, including Question No. compulsory and selecting two questions from each Part. x-x-x	I which is
1.(a) What is Cell dragging? How to avoid it?	(2)
(b) Which modulation schemes are used in EDGE technology & why?	(2)
(c) What is Co-Channel Channel Interference?	(2)
(d) What is VoIP?	(2)
(e) What is delay spread?	(2)
Part- A	
2.(a) What are the main constrains in implementing frequency re-use. Desc	cribe briefly the
techniques to enhance capacity & coverage of cellular communication.	(5)
(b) What is EDGE technology? How is it different from GPRS technology?	(5)
signal-to-interference ratio of 18 dB in the worst case. Find the optimal value of directional antennas, (ii) 120° sectoring, and (iii) 60° sectoring. Should sectoring which case (60° or 120°) should be used? (Assume path loss exponent =4).	g be used? If so, (5)
(b) What is handoff? Discuss various handoff strategies.	(5)
4. (a) What is Wireless Local Loop?	
(b) What is Bluetooth technology? Discuss role of Bluetooth in Personal Area N	(5)
	etworks. (5)
Part-B	
5.(a) What is RAKE receiver? Explain it with the help of block diagram.	(5)
(b) What is Frequency diversity? How do we implement Frequency divers communication?	ity in wireless
	(5)
6.(a) What is Equalization? Why equalizers are required in communication receiv(b) What is FDMA? What are the advantages & disadvantages of FDMA with	
	respect to (5)
7. Write technical notes on the followings: (a) SDMA	
(b) IP based telephony (c) IS-95 system	(3)
Cymro System	(4)

