M.Tech. 3rd Semester (ECE) (CBCS Scheme)

Examination, December-2018

CDMA

Paper-16ECE23C2

Tim	e allo	wed: 3 hours] [Maximum mar	[Maximum marks: 100	
Not	_	uestion No. 1 is Compulsory. Attempt a	ny one	
	ques	stion from each section.		
1.	(a)	What do you mean by FHSS?	5	
	(b)	Explain the term DS-CDMA?	5	
	(c)	What do you mean by Soft Handoff?	5	
	(d)	What do you mean by coding tradeoff?	5	
		Section-A		
2.	(a)	Explain block diagram of CDMA revo	erse and	
		forward channels and their use.	10	
	(b)	Explain the process of Direct Sequence	Spread	
		Spectrum.	10	
3.	Explain the process of Acquisition and tracking of spread			
	•	ctrum signals in detail.	20	
		Section-B		
4.	(a)	Explain the performance analysis of	CDMA	
		system.	10	
	(b)	What do you understand by pilot channel?	-	
			10	

5.	(a)	List the advantages and disadvantages of CDMA		
		networks.	10	
	(b)	Compare CDMA with GSM.	10	
		Section-C		
6.	(a)	Explain the capacity of CDMA sys calculate the forward link capacity.	tem and	
	(b)	Explain the implementation of power of forward and reverse link of CDMA.	control in	
7.	What do you mean by Handoff? Differentiate bet Hard Handoff and Soft Handoff and Explain the pr of Soft handoff in detail.			
		Section-D	•	
8.	-	Explain Reverse link physical channel and its conversion with respect to CDMA 2000.		
9.	(a)	Explain the process of multi user deteddetail.	ection in 10	
	(b)	Explain different combining techniques u	ised in IS	
		95 CDMA.	10	