C.U.SHAH UNIVERSITY Winter Examination-2015

Subject Name: Wireless Mobile Network Architecture

	Subject	Code: 5TE01WMN1	Branch: M.Tech (EC)					
	Semeste		2015 Time: 10:30 To 1:30	Marks: 70				
	Instructi							
	(1) Use of Programmable calculator & any other electronic instrument is prohibited.							
		(2) Instructions written on main answer book are strictly to be obeyed.						
		(3) Draw neat diagrams and figures (if necessary) at the right places.						
	(4)	Assume suitable data if	needed.					
			SECTION – I					
Q-1		Attempt the Following questions						
	a.	a. Enlist the popular cellular telephony networks						
	b.							
	c.	What do you mean by 1						
	d.							
	e.	e. For handoff management, which three issues must be considered?						
	f.	Define inter-BS handof	ff					
	g.	Define intersystem han			(14)			
Q-2		Attempt all questions						
	(a)	1 0	nt popular cellular telephony ner	works	(07) (07)			
	(b)							
~ •			OR					
Q-2		Attempt all questions			(14)			
	(a)		doff and Intersystem Handoff.	. 1 1. ff 1. (((06)			
0.2	(b)	-	e controlled handoff strategy fo	r nandoll detection.	(08) (14)			
Q-3		Attempt all questions What is the significance of link transfer? Explain subrating MCHO link transfer.						
	(a) (b)		e and interface and describe each		(07) (07)			
Q-3		Attempt all questions		in orier.	(14)			
Q-J	(a)		opping BSs with MAHO soft ha	ndoff	(07)			
	(b)	1 0	e of link transfer? Explain MCH		(07) (07)			

ECTION - H

Q-4		(07)			
	a.	Enlist the different channel assignment schemes			
	b.	Compare hard and soft handoff.			
	c.	What are the main architecture entities in a CDPD network?			
	d.	What are the key functions of BTS?			

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	e.	What are the key functions of BSC?	
	f.	Draw the GSM burst structure.	
	g.	Enlist the different types of GSM Short Message services.	
Q-5		Attempt all questions	(14)
	(a)	Draw GSM architecture and explain the functions and significance of each block.	(07)
	(b)	Explain GSM SMS network architecture with diagram.	(07)
		OR	
Q-5		Attempt all questions	(14)
	(a)	Explain in detail with diagram the GPRS architecture and protocols.	(07)
	(b)	Describe WAP model, gateway and protocol.	(07)
Q-6		Attempt all questions	(14)
	(a)	Explain the operation of Mobile-IP.	(07)
	(b)	Describe WLL architecture with diagram.	(07)
		OR	
Q-6		Attempt all Questions	(14)
	(a)	Compare W-CDMA and CDMA 2000 and explain quality of service in 3G.	(07)
	(b)	Explain GSM on net architecture with diagram.	(07)

