## **C.U.SHAH UNIVERSITY**

## WADHWAN CITY

**University (Winter) Examination -2013** 

Subject Name: -Wireless Mobile Network Architecture

Duration :- 2:30 Hours Date : 8/1/2014

<b>Instructions:</b>	-
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(	1`	Attempt all (	uestions of both sections in same answer book / Supplementar	137
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- (2) Use of Programmable calculator & any other electronic instrument is prohibited.
- (3) Instructions written on main answer Book are strictly to be obeyed.
- (4)Draw neat diagrams & figures (If necessary) at right places.
- (5) Assume suitable & Perfect data if needed.

Course Name: M.Tech(EC)Sem-I

		SECTION – I	
Q.1	(a)	Compare Soft Handoff and Hard Handoff.	02
	(b)	Draw a PCS network architecture.	02
	(c)	Compare Cellular and Cordless Technology.	02
	(d)	Explain VLR.	01
Q.2	(a)	Explain the concept of path minimization with suitable example.	05
	(b)	Explain the MS registration process when mobile is in roaming.	05
	(c)	Explain the measurements use to determine the quality of channel. <b>OR</b>	04
Q.2	(a)	Explain roaming management under SS7.	05
_	(b)	Explain Sub-rating scheme in detail.	05
	(c)	Explain PACS network interface.	04
Q.3	(a)	Explain MAHO/NCHO link transfer.	07
	(b)	Explain WAP protocol stack in detail.  OR	07
Q.3	(a)	Compare WCDMA and CDMA 2000.	07
	(b)	Explain H-323 architecture of iGSM.	07
		SECTION – II	
Q.4	(a)	Explain the concept of Mobile IP.	02
	(b)	Draw the flowchart of Non-Prioritized scheme of handoff.	02
	(c)	Which are the reasons of Handoff failure.	02
	(d)	What is the difference between mobile and wireless communication.	01
Q.5	(a)	Explain the basic GSM architecture.	05
	(b)	Write a short note on HSCSD.	05
	(c)	Explain SMS protocol hierarchy.	04
~ <b>-</b>		OR	0.7
Q.5	(a)	Explain CDPD roaming management.	05
	(b)	Explain GSM SMS network architecture in detail.	05
	(c)	Explain WAP network configuration in detail.	04
Q.6	(a)	Explain the location tracking and call setup procedure in GSM.	07
	(b)	Explain GSM MAP protocol hierarchy.  OR	07
Q.6	(a)	Explain CDPD architecture in detail.	07
`	(b)	Explain GSM protocol interface.	07
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