Q.P. Code :37961

[Time: 3 Hours]   **[Marks: 80]**

Please check whether you have got the right question paper.

N.B: 1. Question.No.1 is compulsory.
       2. Attempt any three questions from the remaining five questions.

Q.1		Answer the following:	**20**
	a)	What is meant by frequency reuse? What is its effect on the co-channel interference?	
	b)	State the radio specifications of GSM.	
	c)	Compare GSM and CDMA technologies.	
	d)	Explain the terms of soft, softer and soft-softer handoffs.	
Q.2	a)	Draw a well labelled diagram and explain in detail the architecture of GSM.	**10**
	b)	Explain GSM frame and time slot structure with the required figures.	**10**
Q.3	a)	Explain mobility and radio resource management in CDMA.	**10**
	b)	With a neat block diagram, explain the working of a reverse channel CDMA IS95 modulation process for a single user?	**10**
Q.4	a)	What is WCDMA air interface and discuss the important parameters in it.	**10**
	b)	Discuss the evolution path towards LTE and mention the important features of LTE.	**10**
Q.5	a)	Describe UMTS architecture with a neat diagram and interfaces.	**10**
	b)	Compare 3G and 4G technologies.	**05**
	c)	Write a detailed note on mobile IP.	**05**
Q.6		Write short notes on:	**20**
	a)	WiMax	
	b)	GPRS technology	
	c)	RFID	
	d)	MANET	

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