Q.P. Code :37961

[11me: 5 Hours]	Wiarks: 80

Please check whether	1	1 • 1 .	
Please check whether	MOII have	ant the maht	dijection naner
i icase check whether	vou nave	got the fight	duestion baber.
	J	0	1 1 1 2 7 1 7 7 1 9 0 0 2 7 1 1 0 1 1 1

N.B: 1. Question.No.1 is compulsory.

2. Attempt any three questions from the remaining five questions.

Q.1		Answer the following:	ZU
	a)	What is meant by frequency reuse? What is its effect on the co-	
		channel interference?	
	b)	State the radio specifications of GSM.	50 Y
	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	10
	1- \	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	10
		parameters in it.	
	b)	Discuss the evolution path towards LTE and mention the	10
	82°	important features of LTE.	
Q.5	a)	Describe UMTS architecture with a neat diagram and	10
SA SE	37.00	interfaces.	
	b)	Compare 3G and 4G technologies.	05
	c)	Write a detailed note on mobile IP.	05
Q.6	Y C	Write short notes on:	20
125 B	a)	WiMax	
	b)	GPRS technology	
999	c)	RFID	
762	a)	MANET	