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3	Ho	urs	/ 70	Marks	Seat	No.							
Ι	nstru	ctions -	- (1)	All Question	s are Comp	oulsory.							
			(2)	Answer each	next main	Quest	ion o	n a	n ne	ew	pag	e.	
			(3)	Illustrate you necessary.	ir answers v	with no	eat sk	tetc	hes	wł	nere	ver	
			(4)	Figures to th	ne right indi	icate fi	ull m	ark	s.				
			(5)	Assume suita	able data, if	neces	sary.						
			(6)	Mobile Phon Communicati Examination	on devices	•							
												Ma	rks
1.		Attem	pt any	FIVE of the	e following:	:							10
	a)	Define	Base	station and F	orward char	nnel.							
	b)	Define for N		ency Reuse a	nd draw fre	equency	y Reu	ise	pat	tern	1		

- c) Explain the term Cell splitting.
- d) State any four parameters of W-CDMA.
- e) State features of 3G Technology.
- f) State key features of IEEE 802.16 W-MAN.
- g) List the applications of WLL.

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2.		Attempt any THREE of the following:	12					
	a)	State different wireless communication system and explain any one.						
	b)	Explain Cellular System Interference.						
	c)	Draw and explain GSM Architecture.						
	d)	CDMA-2000 is more advantageous than 3G Gsm standards, justify the statement.						
3.		Attempt any THREE of the following:	12					
	a)	Explain Microcell zone concept to improve the channel capacity.						
	b)	Explain protocol layers of W-CDMA.						
	c)	Describe Bluetooth technology with block diagram.						
	d)	Draw and explain Architecture of IMT-2000.						
4.		Attempt any THREE of the following:	12					
	a)	Compare IS-95 and CDMA. (any four points)						
	b	State need for 4G technology and list the advantages of 4G technology.						
	c)	State and explain GSM services.						
	d)	Explain the concept of RFID and give the applications of RFID.						
	e)	Explain services and performance of SS7.						

5. Attempt any <u>TWO</u> of the following:

- a) Draw and explain blocks diagrams of frequency synthesizer.
- b) i) Explain the concept of Handoff. State its types.
 - ii) Describe Umbrella cell approach.
- c) Draw the block diagram of IS-95 architecture and explain each blocks.

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- a) Compare fixed wireless networks and mobile wireless networks on the basis of
 - i) Portability
 - ii) Latency
 - iii) Type of connection
 - iv) Speed
 - v) Type of Base Stations
 - vi) Application.
- b) List features of CDMA-2000 and compare UMTS and CDMA-2000.
- c) State types of wireless Networks and describe MANET.

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