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1	5116	5														
3	Ho	urs	/	10	0	Marks	Seat	No.								
	Instru	ctions	r —	(1)	A	Il Questions	are Com	pulsoi	ry.							
				(2)		lustrate your ecessary.	answers	with	nea	t sł	cetc	hes	wł	nere	ever	
				(3)	F	igures to the	right ind	licate	ful	l m	ark	s.				
				(4)	С	lobile Phone, ommunication xamination H	devices									
														-	Ma	rks
1.	a)	Ansv	ver	any	T]	HREE of the	followi	ng:								12
		(i)	Lis	t var	ioı	us mobile con	nputing f	functi	ons.							
		(ii) State four features of GSM.														
		(iii)	De	scribe	e (GSM location	updation	n proc	cedu	re.						
		(iv)	Exj	plain	in	brief stream	s cipheri	ng an	nd b	locl	k c	iphe	erin	g.		
	b)	Ansv	ver	any	0	<u>NE</u> of the fo	llowing:									6
		(i)				diagram desc procedure.	eribe step	os for	· VI	LR	fail	ure				
		(ii)	Dra	aw ai	nd	explain life	cycle of	andro	oid a	activ	vity	•				

2. Answer any FOUR of the following: 16 Write different channel assignment strategies in GSM. Explain a) in brief. Define cell sectoring with its type. b) With neat diagram describe GSM frame structure. c) Describe basic call originating procedure. d) List and explain in short types of bearers services in GPRS. e) With neat diagram describe stepwise procedure to describe f) AES. 3. Answer any FOUR of the following: 16 Describe how repeaters are used in the range extension. a) Describe GSM traffic channels with its type b) Write major steps performed in inter LA movement. c) List strategies used in implementation of 4G technology. d) e) Mention the features of window CE. 4. Attempt any THREE of the following: 12 a) (i) Define frequency reuse and handoff. Explain TCH channel coding in GSM signal processing. (ii) Describe various types of attacks in information security. (iii) Compare between symmetric key cryptography with public (iv) key cryptography. Attempt any ONE of the following: 6 b) With neat labelled diagram explain GSM architecture. (i) Write steps to develope a user interface with two text (ii) box and two buttons.

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Marks

5.		Attempt any <u>TWO</u> of the following:	16
	a)	State various GSM control channels in brief.	
	b)	Describe GPRS architecture with neat diagram.	
	c)	Write detail procedure of DES algorithm.	
6.		Attempt any FOUR of the following:	16
		recempt any <u>rook</u> of the following.	10
	a)	Describe micro cell zone concept.	10
	a) b)		10

d) With neat diagram explain any two data burst in GSM frame.

e) Write note on UMTS in 3G and 4G technologies.