Total	l No. o	of Questions : 8] SEAT No. :			
P31	12	[Total No. of Pages : 2			
		[5670]-212			
B.E. (Electronics & Telecommunication)					
MOBILE COMMUNICATION					
		(2012 Pattern) (Semester - II)			
		[Max. Marks: 70			
INSU	исно 1)	ns to the condidates : Answer Q.1 OR Q.2, Q.3 OR Q.4, Q.5 OR Q.6, Q.7 OR Q.8			
	2)	Neat diagrams must be drawn wherever necessary.			
	3)	Figure to the right indicate full marks.			
	<i>4</i> )	Use of electronic pocket calculator is allowed.			
	<i>5</i> )	Assume suitable data, if necessary.			
<b>Q</b> 1)	a)	Explain electronics switching system. [6]			
	b) (	What is switching? Explain the different switching functions in digita			
		switching System. [8]			
	c)	Draw and explain cell splitting and sectoring in detail. [6]			
		OR			
00)					
Q2)	a)	Explain in detail the space division switching systems. [8]			
	b)	Calculate the availability and unavailability of single and dual processo			
		system with MTBF=10000 HRS. and MTTR=20 HRS. in 25 years.			
	c)	Explain different channel Assignment strategies. [6]			
	,				
		9.			
Q3)	a)	Explain the GSM architecture in detail. [8]			
	b)	Explain the handover mechanism in AMPS. [8]			
	,				
		OR			
<b>Q</b> 4)	a)	Explain the radio transmission parameters in GSM. [8]			
	b)	Explain call procedure in completing a call from mobile (cellular) to mobile			
	,	(cellular).			

<b>Q</b> 5)	a)	Write a short note on GMSK Modulation.	[6]
	b)	Draw a neat diagram and explain block scheme of GSM full rate of	
			[6]
	c)	Explain different data services used in GSM.	[6]
		OR	
<b>Q6</b> )	a)	Draw and explain the architecture of SMS service.	[6]
	b)	Explain the different services offered by GPRS.	[6]
	c)	Explain speech coding used in GSM system.	[6]
<b>Q</b> 7)	a)	Explain in detail Rake Receiver used in CDMA.	[8]
	b)	Explain different motivations for use of CDMA system.	[8]
		OR OR	
<b>Q</b> 8)	a)	Explain the importance of 3G mobile system. List the different s	services
		used in 3G mobile system.	[8]
	b)	Compare WCDMA and CDMA 2000 system.	[8]
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