Total No.	of Que	estions :6]	SEAT No. :			
P123		BE/Insem./APR-168	[Total No. of Pages : 2			
		B.E. [E&TC]				
404189: MOBILE COMMUNICATION						
(2012 Pattern) (Semester - II)						
(2011 migra) (series 12)						
Time: 1 H	Jourl	200	[Max. Marks : 30			
Instructions to the candidates:						
1) Answer Q1 or Q2, Q3 or Q4, Q5 or Q6.						
2) 3)		lagrams must be drawn wherever necessary.	9			
3)	rigur	es to the right indicate full marks.	No.			
		~6·V				
<i>Q1</i>) a)	Defi	ine and explain Grade of service, CCS, E	rlang Call completion rate			
Q1) u)		the and explain Grade of service, ees, E	[4]			
b) On average, during the busy hour, a company makes 180 outgoing calls						
0)		verage duration 2 minutes. It receives 200				
		ation 3 minutes. Find:				
	i)	the outgoing traffic	[6]			
	ii)	the incoming traffic				
	iii)	the total traffic	C			
	,	OR	¿Ç'			
()2) ()	Ctat		sahina ayatam			
Q2) a)		e and explain switching functions of swit				
b)	Writ	te a short note on:	[6]			
	i)	probability of delay				
	ii)	Queues in tandem	0, 00			
Q3) a)	Exp	lain the Skipped Grading & Homogen	eous Grading. Draw neat			
		rams.	[4]			
b)	Writ	te short notes on:	[6]			
	i)	SS7 signaling	, \			
	ii)	Common channel signaling				
OR OR						
		S. V	P.T.O.			

<i>Q4</i>)	a)	State and explain Erlang's delay formula		
	b)	With the help of neat diagram, explain:		
		i) In -band signaling		
		ii) Out-band signaling		
Q 5)	a)	Differentiate between FDMA & TDMA	[4]	
	b)	With the help of near diagram explain the three basic propaga mechanisms of signal in mobile communication system OR	tion [6]	
Q6)	a)	Discuss the factors influencing small scale fading	[4]	
	b)	Explain the concept of frequency reuse in Mobile Cellular System	[6]	
BE/	Inser	A. A	96. 176.	