Total No. of	Questions	:6]
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SEAT No. :	
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P123

[Total No. of Pages : 2

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BE/Insem./APR-168 B.E. [E&TC]

404189: MOBILE COMMUNICATION (2012 Pattern) (Semester - II)

Time: 1 Hour] [Max. Marks: 30 Instructions to the candidates: Answer Q1 or Q2, Q3 or Q4, Q5 or Q6. Neat diagrams must be drawn wherever necessary. *2*) *3*) Figures to the right indicate full marks. **01**) a) Define and explain Grade of service, CCS, Erlang, Call completion rate [4] On average, during the busy hour, a company makes 180 outgoing calls of average duration 2 minutes. It receives 200 incoming calls of average duration 3 minutes. Find: [6] i) the outgoing traffic the incoming traffic ii) the total traffic iii) OR State and explain switching functions of switching system [4] **02**) a) Write a short note on: [6] b) probability of delay i) ii) Queues in tandem Explain the Skipped Grading & Homogeneous Grading. Draw neat **Q3**) a) diagrams. **[4]** Write short notes on: [6] b) SS7 signaling i) Common channel signaling ii) OR

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

