Total No	. of Questions	:	10]
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SEAT No.:	
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P3624

[Total No. of Pages: 2

ction	(2012 Pattern) (Elective - II) Hours] [Max. Mo	ırks :70
ction		arks :70
)	ns to the candidates:-	
	·	
)	Use of logarithmic tables slide rule, Mollier charts, electronics	pocket
) .	With a neat diagram, explain the concept of frequency reuse.	[5]
)]	Describe three basic propagation mechanism.	[5]
	OR	
) .	List the factors influencing small scale fading.	[5]
)	With neat diagram, describe the working of RAKE receiver.	[5]
		ıll scale [5]
) .	Discuss the details of practical hand off consideration.	[5]
	OR	
) .	Describe the evolution of mobile radio communications.	[5]
		cellulor [5]
·	i) Probability density function.ii) Autocorrelation function.	nal.[10]
		Neat diagrams must be drawn wherever necessary. Figures to the right indicate full marks. Use of logarithmic tables slide rule, Mollier charts, electronics calculator and steam tables is allowed. Assume suitable data if necessary. With a neat diagram, explain the concept of frequency reuse. Describe three basic propagation mechanism. OR List the factors influencing small scale fading. With neat diagram, describe the working of RAKE receiver. Explain in brief the working principles of different types of sma fading. Discuss the details of practical hand off consideration. OR Describe the evolution of mobile radio communications. Explain the techniques to improve the coverage and capacity of system. Explain the following terms to describe characteristics of speech sign i) Probability density function.

iii) Power spectral density function.

Classify and explain with diagram spread spectrum multiple access b) technique. OR With neat block diagram explain function of each block of LPC coding **Q6)** a) system. [8] Explain packet radio access techniques using ALOHA protocol and b) compare I persistent, Non persistent and P - persistence CSMA technique. [10]Explain SS7 signalling techniques. **Q7**) a) [8] Describe traffic routing algorithm in wireless network with a neat b) diagram. [8] OR **Q8)** a) Describe the network architecture of universal mobile Telecommunication system [8] [8] Explain the block diagram of ISDN network. b) **Q9**) a) Discuss different types of channel in GSM system. [8] Describe with neat block diagram the architecture of IS - 95 CDMA b)

system.

OR

[8]

[8]

Q10) a) Explain step by step procedure of GSM call setup from mobile to PSTN. [8]

b) Discuss forward and reverse channels of CDMA.

