GUJARAT TECHNOLOGICAL UNIVERSITY ME - SEMESTER- II (Old course)• REMEDIAL EXAMINATION – SUMMER 2015							
Subj	Subject Code: 1722202 Date:13/05/2015						
Subje Time: Instru	02:	Total Marks: 70					
1. Attempt all questions.							
		Make suitable assumptions wherever necessary.					
	3.]	Figures to the right indicate full marks.					
Q.1	(a)	With respect to probability theory, explain following: (a) Characteristic Function (b) Rice Distribution.	07				
	(b)	With necessary equations, describe in brief: (a) Averages for Joint Stochastic Processes (b) Stationary Stochastic Process.	07				
Q.2	(a)	Explain and Represent following: Response of a Bandpass System to a Bandpass Signal.	07				
	(b)	Discuss Orthogonal Expansion of Signals.	07				
	(0)	Discuss of historial Expansion of Signals.	07				
	OR						
	(b)	Explain Spectral Characteristics of CPM.	07				
Q.3	(a)	Describe Correlation-type Demodulator with diagrams.	07				
	(b)	Discuss Regenerative Repeaters.	07				
0.2	(-)	OR Discuss shout a Matshed Eitar Dama dulatar	07				
Q.3	(a)	Discuss about a Matched Filter Demodulator.	07				
	(b)	Explain Demodulation and Square Law Detection of Binary FSK Signals.	07				
Q.4	(a)	With necessary Block Diagram, discuss M-ary PSK Receiver.	07				
	(b)	Explain Carrier Recovery with a Decision Feedback PLL.	07				
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OR							
Q.4	(a)	Discuss Squaring Loop.	07				
Q.4	(b)	Explain Symbol-by-Symbol Suboptimal Detection.	07				
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Q.5	(a)	Explain Code Division Multiple Access.	
	(b)	Discuss in brief: OFDM.	07
		OR	
Q.5	(a)	Discuss in brief: Decision Feedback Equalization.	07
	(b)	Discuss in brief: Statistical Model for Fadding Channels.	07
