Seat No.:	Enrolment No.
Jean 1 (0).	Emonition 101

## GUJARAT TECHNOLOGICAL UNIVERSITY BE- IV<sup>th</sup> SEMESTER-EXAMINATION - MAY/JUNE- 2012

Subje	ect c	ode: 141102 Date: 31/0	5/2012	
Гime	1		arks: 70	
1. 2.	Atte Mal	ons: empt all questions. ke suitable assumptions wherever necessary. ares to the right indicate full marks.		
Q.1	` '	Draw block diagram of communication system and explain it Explain the need for modulation of signals describe in detail Amplitude Modulation.	07 07	
Q.2	(a)	Define: [1] Shot Noise [2] Modulation index [3] Snail's Law [4] Noise Figure [5] IF [6] Pick Detector [7] SNR	07	
	<b>(b)</b>	Describe the need of pre-emphasis and de-emphasis in detail used in FM	07	
		OR		
	<b>(b)</b>	Explain in detail the color TV transmission	07	
Q.3	(a)	Describe various TV standards	07	
Q.C	(b)	Write short note on various Fiber Optic Cables  OR	07	
Q.3	(a)	Describe the method of SSB-SC (single sideband with suppressed carrier)	07	
	<b>(b)</b>	Explain Pulse Code Modulation with necessary figure	07	
Q.4	(a)	Explain the need and usage of Data Communication System	07	
•	<b>(b)</b>	Give comparison of long and short haul broadband system  OR	07	
<b>Q.4</b>	(a)	Explain multiplexing in broadband system	07	
	<b>(b)</b>	Draw necessary diagram and explain TV receiver.	07	
Q.5	(a)	Describe the elements of long distance telephony	07	
	(b)		07	
		OR		
Q.5	(a)	Draw block diagram of superhetrodyne receiver and explain them	07	
-	` '	Enumerate various types external and internal noise and explain any three	07	

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