Seat No.:	Enrolment No.

Subject Code: 141102

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-IV EXAMINATION - WINTER 2015

Date:06/01/2016

Ti	me: (struction 1 2	. Attempt all questions.	
Q.1	(a) (b)	Draw and explain block diagram of AM Radio receiver What is modulation? Why is it necessary in communication? Discuss type of modulation	07 07
Q.2	(a) (b)	Draw and explain block diagram of fiber optic communication system What is noise in communication systems? Give classification of noise and explain any one in detail.	07 07
	(b)	OR Write short note on: Fundamental of data communication systems	07
Q.3	(a)	receiver)	
	(b)	Write shot note on: Television standards	07
Q.3	(a) (b)	OR What do you mean by multiplexing? Discuss types of multiplexing techniques Explain briefly: Long Haul Systems	
Q.4	(a) (b)	Compare DSB with SSB Explain the working a frequency stabilized reactance modulator for FM generation with the help of block diagram OR	07 07
Q.4	(a) (b)	What are the types of pulse modulation system? Explain PCM Write short note on: Telegraphy and Telemetry	07 07
Q.5	(a)	Draw and explain block diagram of FM radio receiver with necessary waveform	07
	(b)	at various points Give classification of FM detectors. Explain any one in detail with necessary circuit and waveform.	07
Q.5	(a) (b)	OR Draw block diagram of PAL-D Color receiver Write short note on: Light sources for fiber optic communication system	07 07
