## **GUJARAT TECHNOLOGICAL UNIVERSITY**

BE - SEMESTER-VI (NEW) - EXAMINATION – SUMMER 2016 Subject Code: 2163206 Date: 11/05/2016

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T	ime:	et Name: Analog and Digital Communication (ICT) 10:30 AM to 01:00 PM	Total Marks: 7	0
In	2	ions: 1. Attempt all questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks.		
Q.1	(a) (b)	Define elements of communication system and explain in brief. Explain signal representation and analysis in details.		)7 )7
Q.2	(a) (b)	Explain external and internal noise. Explain noise temperature in details.  OR		)7 )7
	<b>(b)</b>	Explain noise figure and noise calculations.	0	7
Q.3	(a) (b)	Explain amplitude modulation and its different techniques.  Define elements of analog communication system and explain in  OR		)7 )7
Q.3	(a) (b)	Compare AM & FM. Explain FM and its generation signals.		)7 )7
Q.4	(a) (b)	Explain angle modulation technique. Explain practical issue in FM system.		)7 )7
Q.4	(a) (b)	OR  Explain radio transmitter in detail.  Explain radio receiver in detail.		)7 )7
Q.5	(a) (b)	Explain ASK modulation and demodulation.  Explain FSK modulation and demodulation.		)7 )7
Q.5	(a) (b)	Explain pulse analog modulation. Explain pulse digital modulation.		)7 )7

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