Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VII EXAMINATION - WINTER 2015

Subject Code: 172405 Subject Name: Industrial Communication Systems Time: 10:30am to 1:00pm Instructions: 1. Attempt all questions.		Date: 04/12/2015 Total Marks: 70		
Q.1	(a) (b)	Explain external noise and internal noise. Explain Amplitude Modulation (AM).		07 07
Q.2	(a) (b)	Explain Frequency Modulation (FM). Differentiate between ASK and FSK.		07 07
	(b)	OR Differentiate between PSK and PWM.		07
Q.3	(a) (b)	Explain synchronous and asynchronous system with suitable ex Write short notes on serial data communication interface stand	*	07 07
Q.3	(a) (b)	Explain RS-232 interface standards. Explain RS 485 standards.		07 07
Q.4	(a) (b)	What is an USB?. Explain with suitable examples. Define noise. Explain source of electrical noise. OR		07 07
Q.4	(a) (b)	What is the protocol? Explain TCP/IP. Write short notes on modbus protocol.		07 07
Q.5	(a) (b)	Explain HART. Explain network topologies.		07 07
Q.5	(a) (b)	OR Explain Device Net System. Write short notes on satellite communication.		07 07
