www.FirstRanker.com

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-7 • EXAMINATION - SUMMER 2018

Subject Code: 171703 Date: 03-05-2			18
Tiı	ne: (tructio	Attempt all questions. Make suitable assumptions wherever necessary.	
Q.1	(a) (b)	Explain OSI Model in detail. List the main industrial communications systems. Write a short note on smart instrumentation systems.	07 07
Q.2	(a) (b)	Explain conductance and magnetic Coupling of Noise. Explain electrical signal characteristics of EIA-232 standard. OR	07 07
	(b)	Explain Half-duplex operation of the EIA_232 interface.	07
Q.3	(a) (b)	Explain the EIA-485 standard. Explain EIA-232/EIA-485 interface converters. OR	07 07
Q.3	(a) (b)	What are the advantages of fiber optic cables over other transmission media. Classify and explain fiber optic cables.	07 07
Q.4	(a) (b)	Write a note on Function codes of Modbus Protocol. Explain the Data-link Layer of HART Protocol. OR	07 07
Q.4	(a) (b)	Write main features of DeviceNet. Explain hybrid medium access control in ProfiBus.	07 07
Q.5	(a) (b)	Explain Physical layer and wiring rules of Foundation Field Bus. Explain 10Base2 and 10BaseT Ethernet. OR	07 07
Q.5	(a) (b)	Explain IPv-4 header. Write fundamental elements of a radio link. ***********************************	07 07