A		Reg. No. :											
				<u> </u>									
	Question Paper Code: 56502												
	B.E. /	B.Tech. DEGREE E	XAN	IINA	TIO	N, A	PRI	L 20	19				
		Sixth	Seme	ester									
		Electronics and Instru	umer	ntatio	n En	igine	ering	5					
	15	5UEI602 – INDUSTR	IAL	DAT	ΓΑ Ν	ETV	VOR	KS					
		(Regula	tion	2015	5)								
Dur	ation: Three hours			Maximum: 100 Marks									
		Answer Al	LL Ç	Juest	ions								
		PART A - (10	x 1	= 10	Mar	ks)							
1.	A television broadca	st is an example of		tra	ansm	issio	n.					CO	1- R
	(a) Half-duplex	(b) Simplex	(	c) A	utom	atic			(	(d) F	ull-d	uple	X
2.	Which is the main function of transport layer? CO1						1- R						
	(a) Node to node delivery												
	(b) End to end delivery												
	(c) Synchronization												
	(d) Updating and maintaining routing tables												
3.	Bridges are also repeaters and CO							CO2	2- R				
	(a) Regenerator	(b) Preprocessor	(	c) A	mpli	fier			(	(d) Q	Juant	izer	
4.	The small box that	gathers the signal t	from	eac	h in	divid	ual	devi	ce			CO	2 -R
	(a) Gateway	(b) Hub	(	c) Bi	ridge				(	(d) ro	outer		
5.	The HART uses technique to carry digital information									CO	3- R		
	(a) BPSK	(b) ASK	(	c) PS	SK				(	(d) F	SK		
6.	Which device is use the object dictionary	ed to remotely view lo?.	ocal	devi	ce da	ata d	escri	bed	in			CO	3 -R
	(a) Virtual Field Device				(b) Variable Frequency Device								
	(c) LCD		(	d) Ll	ED								

7.	is an open communications protocol in industrial CO manufacturing that allows for communication between devices.									
	(a) I	MODBUS	(b) PROFI	BUS (c	) Field Bus		(d) HART	) HART		
8.	Prof	ibus DP is the ma	in emphasis f	for Auto	mation.		C	CO4 -R		
	(a) I	Home	(b) Factory	(c	) Fixed		(d) Robotic			
9.	Fibe	er optic Ethernet is	also known	as			CO5 -R			
	(a) 1	0BASE2	(b) 10BASI	E5 (c	) 10BASE-T		(d) 10BASE-F			
10.	AS	interface is	_oriented fie	ld bus.			CO5 -			
	(a)B	bit	(b) Byte	(c	) Nibbles		(d) Words			
			PART	T - B (5 x 2 =	10Marks)					
11.	Diff	erentiate bridges a		CO1 -R						
12.	Wha	at are the different		CO2 -R						
13.	Differentiate Interoperability and Interchangeability							CO3- R		
14.	Write about Master/Slave Concept of PROFIBUS							CO4 -R		
15.	Define Industrial Ethernet.						CO5 -R			
			PAI	RT - C (5 x 1)	6= 80Marks)					
16.	(a)	Describe the fun reference model.	ections perfor	rmed by vari	ous layers of	ISO-OSI	CO1- App	(16)		
	Or									
	(b)	illustrate the role with neat diagram	e of CSMA/C n.	D protocol 1	n collision def	tection	COI -App	(16)		
17.	(a)	Explain the feat	ures of Brid	ges, Routers	and Gatewa	ys with a	CO2 -App	(16)		
				Or						
	(b)	Detail about requirement for r	ARCNET networks used	configuratio l for control.	n with its	special	CO2 -Ana	(16)		
18.	(a)	Explain in generation and discuss.	al the field b	us architectu	re. Draw the	topologies	CO3 -Ana	(16)		
	(b)	Discuss about th neat diagram.	e HSE and I	Or H1 in FIELI	BUS archited	cture with	CO3 -Ana	(16)		
19.	(a)	Explain about Fu	nction Codes	s of MODBU	S		CO4 -U	(16)		

		Or		
	(b)	Explain the structure of Modbus in detail.	CO4 -Ana	(16)
20.	(a)	Write a detailed note on the radio spectrum and frequency allocation	CO5 -U	(16)
		Or		
	(b)	Compare 10 Mbps Ethernet with 100 Mbps Ethernet in detail	CO5 -U	(16)