P.T.O.

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Instructions:		ns:	(1)		uestions		-		1							
			(2)		•		s with near			wher	eve	r ne	ecess	sary.		
			(3) (4)	_		_	licate full if necessa		S.							
															M	arks
1.	Atte	Attempt any FIVE:												10		
	(a)) Define:														
		(i)	Seri	al com	munication	on										
		(ii)	Para	ıllel co	mmunica	tion										
	(b)	State	e need	l of mu	ltiplexing	g.										
	(c)	List	differ	ent typ	es of net	work top	ologies.									
	(d)	Drav	w PIN	config	guration o	of RJ-II o	connector.									
	(e)	List the type of profibus.														
	(f)	Drav	w clie	nt-serv	er netwoi	rk.										
	(g)	Drav	w MO	DBUS	message	frame.										
2.	Attempt any THREE :										12					
	(a)) Compare :														
		Half-full duplex communication modes on basis of														
		(i)	defi	nation												

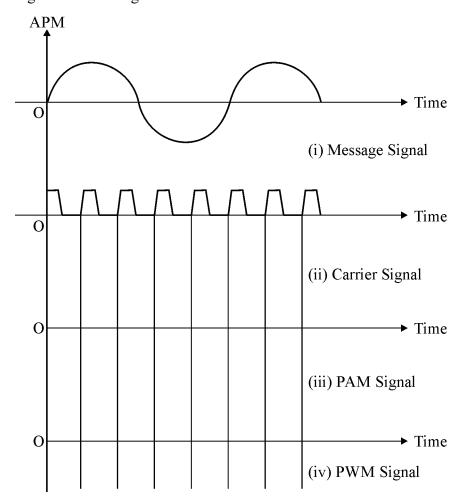
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application

(ii)

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(b) Define PAM and PWM. Draw its wave form for given message and carries signal shown in figure.



- (c) With neat waveform explain polar NRZ format of line coding.
- (d) Describe the exchange of information using ISO-OSI reference model.

3. Attempt any THREE:

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(a) Sketch ASK & FSK signal for following data stream :

Data stream: 10110101

- (b) Explain the principle of light propagation in optical fiber.
- (c) Construct mesh & star network for node.
- (d) Explain Peer to Peer and client server system using its architecture diagram.

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4.	Attempt any THREE:								
	(a)	Classify different transmission media. Explain any one in brief.							
	(b)	Drav	w layer architecture of foundation field bus. Explain each layer in brief.						
	(c)	State common problems which occurs in MODBUS network protocol.							
	(d)	w a HART based digital multi-drop network for seven node showing all component.							
	any three connector that can used in co-axial cable connection with ble diagram.								
5.	Attempt any TWO:								
	(a)	(i)	Define TDM and state its one application.						
		(ii)	Draw block diagram of TDM to show multiplexing of 3 signal A, B and C.						
	(b) Differentiate ISO-OSI and TCP-IP reference model on given points :								
		(i)	Structure of OSI and TCP						
		(ii)	Number of layers used in each						
		(iii)	Developed by						
	(c)	Construct practical optical receiver using avalanche photo diode. Alse explain it in brief.							
6.	Attempt any TWO:								
	(a)	State types of noise found in communication system. Explain any two type of noise in brief.							

- Describe the features of devicenet protocol. (b)
- Describe the process of sending data bits using RS 132 standard. (c)

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