Seat No.: 440

P.T.O.

NF-122

November -2018

B.C.A., Sem.-V

			CC	303 : D	ata Commun	ucatioi	ns and Networkii	ng		
Time: 2:30 Hours						[Max. Marks				
1.	(A)	Write	e the							
		(i)	Explain any two modulation techniques.							
		(ii)								
			Explain analog signal, digital transmission in detail. OR							
		(i)	Wha	at is data tr						
		(ii)	What is data transmission rate and how is it calculated? Discuss the concept of simplex, half duplex and full-duplex communication.							
	(B)	Answer the following: (Any four)								
		(1)		ine period.						
		(2)	Data rate is closely related with the							
			(a)	phase		(b)	modulation			
			(c)	frequenc	у	(d)	size			
		(3)		is highly affected by noise.						
	7.9.		(a)	FSK		(b)	ASK			
			(c)	PSK		(d)	none of these			
71		(4)		detects zeroes and ones and regenerates them.						
			(a)	Amplifie		(b)	Repeater			
		(5)	(c)	Multiple		(d)	Modem			
		(5)			gnals are continu	uous in n	ature.			
		J	(a)	Analog		(b)	Digital			
1	-	(6)	(c)		303 L 20	(d)	None of these			
	1	(0)	Dell	ine baud rat	e.					
2.	(A)	A) Write the following:								
		(i)		lain how LI	RC works.					
		(ii)	Wha		7					
				OR	44			7		
		(i)	Desc	cribe the Go	o-back-n techniq	ue.				
MIE	100	(ii)	Exp	lain sliding	window method		and to make days 21			
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	(B)	Answ	ver the	e following: (Any four	')					
		(1)		is an intelligent multiplexing technique.						
			(a)	STDM	(b)	FDM				
			(c)	TDM	(d)	None of these				
		(2)		transmits each	signal on a d	lifferent frequency.				
			(a)	TDMA	(b)	CDMA				
			(c)	FDMA	(d)	TDM				
		(3)		ne Encryption.						
		(4)		mux is responsible for	both multip	lexing and demultiplexing. [True /				
		(5)	CRO	C calculation is based on	a specific po	ortion of data. [True / False]				
		(6)				sender if everything was O.K.				
			(a)	NAK	(b)	PAK				
			(c)	ACK	(d)	NCK				
				6,4						
3.	(A)) Wr	ite the	following:						
		(i)	Wh	at is transmission media	? Explain an	y one guided media in detail.				
		(ii)	Des	scribe Packet switching?		7				
		(*)		OR						
		(i)	Wh	at is handoff? How does	it take place	?				
		(ii)	Des	scribe topology. Explain	any three in	detail.				
	(B)	Ans	swer th	ne following : (Any thre	e)	3				
		(1)	In s	tar topology, the central	hub is called	· \				
		M	(a)	active hub	(b)	passive hub				
		9	(c)	inactive hub	(d)	live hub				
		(2)		e Ethernet address consis						
		(3)		tical fibers use	for data to	ransmission.				
			(a)		(b)	current				
			(c)	light	(d) /	sound				
		(4)	1.0		monly used	transmission medium.				
			(a)		(b)	Coax				
		e la companya di santana	(c)		(d)	STP				
		(5)	De	fine attenuation.						

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	(A)	Write	the	toll	owing	•
4		111100			0 11115	•

- (i) What is internetworking? Give a summary of internet working devices.
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(ii) Explain OSI Model.

OR

- (i) What is Router? How does it works?
- (ii) How does gateway work?

(B) Answer the following: (Any three)

- •
- (1) A simple bridge is also called an adaptive bridge. [True / False]
- (2) The OSI model consists of five different layers. [True/False]
- (3) Just one address is sufficient for a router. [True / False]
- (4) The user is closest to the Application layers. [True / False]
- (5) Encryption is handled by the Presentation layers. [True / False]