

NBP-003-1072002 Seat No. _____

M. C. A. (Sem. II) (CBCS) Examination April / May - 2017

P-2020: Computer Network

Faculty Code : 003 Subject Code : 1072002

Time: Hours] [Total Marks : 70 1 (a) Answer the following 4 **(1)** Give full form of WAN. Give full form of LAN. (2)(3) Attenuation refers to any reduction in the strength of a signal. True or False? Bandwidth describes the maximum data transfer **(4)** rate of a network or Internet connection. True or False? 2 (b) Answer any one in brief: (1) Define Network. (2)What is throughput? Answer any one in detail: 3 (c) (1) Explain analog and digital signals. **(2)** Explain LAN and WAN. (d) Answer any **one**: 5 Explain Client-server and Peer to Peer Network. (1) (2) List different network services and explain any two.

2	(a)	Answer the following:		4
		(1)	Which layer provides the services to user?	
		(2)	Transmission data rate is decided bylayer.	
		(3)	The OSI model has layers.	
		(4)	Which Layer manages device addressing, tracks the location of devices on the network, and determines the best way to move data?	
	(b)	Ansv	ver any one in brief:	2
		(1)	What is OSI model?	
		(2)	What is the work of data link layer?	
	(c)	Ansv	ver any one in detail :	3
		(1)	What is the work of network layer?	
		(2)	What is the work of transport layer?	
	(d)	d) Answer any one :		5
		, ,	List and explain OSI reference model with all layers.	
		(2)	Write a note on protocol stack.	
3	(a)	Answer the following:		4
		(1)	Give full form of TDM.	
		(2)	Give full form of STP.	
		(3)	Give full form of TDMA.	
		(4)	Give full form of EMI.	
	(b)	Ansv	wer any one in brief:	2
		(1)	What is Attenuation and Electromagnetic Interference?	
		(2)	What is the purpose of Fibre optic cable?	

	(c)	Answer any one in detail :		3	
		(1)	Explain co-axial cable.		
		(2)	Compare different wireless media.		
	(d)	Answer any one :			
		(1)	Write a note on Twisted Pair Cable.		
		(2)	Explain Time Division Multiplexing (TDM).		
4	(a)	Answer the following:		4	
		(1)	A topology is one in which all devices connect to a common, shared cable.		
		(2)	is a network device that repeats a signal from one port onto the other ports to which it is connected.		
		(3)	Give full form of CSMA / CD.		
		(4)	In dynamic routing, the routing table entries are populated with the help of routing protocols. True or False?		
	(b)	Answer any one in brief:		2	
		(1)	Explain token passing.		
		(2)	Explain use of modem.		
	(c)	Answer any one in detail:		3	
		(1)	Write a note on router.		
		(2)	Explain Active Hub and Passive Hub.		
	(d)	Answer any one:		5	
		(1)	What is topology? List all the topologies and explain any one.		
		(2)	What is routing? Explain Distance vector routing.		

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5	(a)	Answer the following:		4
		trans	switching divides the data to be smitted into packets transmitted through the ork independently.	
		(2) TCP	is a connection-less protocol. True or False?	
		(3) Full	form of TCP.	
		(4) IPV4	has bits.	
	(b)	Answer any one in brief:		2
		(1) Wha	t is IP Datagram?	
		(2) Wha	t is port? Explain in brief.	
	(c)	Answer any one in detail:		3
		(1) Expl	ain the structure of IP address.	
		(2) Wha	t is Socket? Explain in brief.	
	(d)	Answer any one:		5
		(1) Write	e a note on Message switching.	
		(2) Write	e a note on TCP/IP.	