

## **DCC-003-003503** Seat No. \_\_\_\_\_

## B. C. A. (Sem. V) (CBCS) Examination April / May - 2015

## CS - 27 Network Technology and Administration

Faculty Code: 003 Subject Code: 003503

Time · 21 Hours

Time: $2\frac{1}{2}$ Hours					[Total Marks : 70				
			SECTI	ON	- A				
1	Ansv	wer f	following MCQ :		20				
	(1)	A ne	etwork model where t	here	is no server computer is				
		(a)	Client/Server Netw	ork					
		(b)	Centralized Networ	·k					
		(c)	Peer-to-Peer Netwo	$\mathbf{r}\mathbf{k}$					
		(d)	All of above						
	(2)	Rou	ter operates at	la	yer of OSI reference model.				
		(a)	Physical Layer	(b)	Transport Layer				
		(c)	Data Link Layer	(d)	Network Layer				
	(3)		is a form of wirele	ess tr	ansmission in which signals are				
		sent via pulses of infrared light.							
		(a)	Radio Networking						
		<b>(b)</b>	Microwave transmission						
		(c)	Infrared transmissi	on					
		(d)	All of these						
	(4)	) protocol is built into most popular e-mail products s							
		as C	Outlook Express.						
		(a)	ARP	(b)	SMTP				
		(c)	HTTP	(d)	POP				
	(5)	A us	ser can get files from	ano	ther computer by using				
		(a)	Internet Protocol						
		(b)	TCP/IP						
		(c)	File Transfer Proto	ocol					
		(d)	None of these						
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(6)	of the following is considered as a broad band com-						
	munication channel.						
	(a)	Microwave circuits	(b)	Fiber Optic cables			
	(c)	Coaxial cable	(d)	All of the above			
(7)	Layer one of the OSI model is						
	(a)	Physical Layer	(b)	Data Link Layer			
	(c)	Transport Layer	(d)	Application Layer			
(8)	A NIC card can be used for						
	(a)	WI-FI	(b)	Ethernet			
	(c)	CDDI	(d)	FDDI			
(9)		of the following is unbound transmission media.					
	(a)	Microwave	(b)	Co-axial			
	(c)	UTP	(d)	fiber Optics			
(10)	(10) of the transport layer protocol is connectionle						
	(a)	UDP	(b)	FTP			
	(c)	TCP	(d)	SMTP			
(11)	P layer is called						
	(a)	Message	(b)	Datagram.			
	(c)	Segment	(d)	Frame			
(12)	Dev	Devices on one network can communicate with devices on					
	ano	ther network via	·				
	(a)	File Server	(b)	Application Server			
	(c)	Gateway	(d)	Hub			
(13)	address use 7 bits for the network and 24 bits for the						
host portion of the IP address.							
	(a)	Class A	(b)	Class B			
	(c)	Class C	(d)	Class D			
(14)							
	(a)	What data is comm	nunio	cated?			
	(b)	How data is comm	unica	ated ?			
	(c) When data is communicated?						
	(d)	All of these					
(15)	Error detection at Data Link Layer is achieved by						
	(a)	Hamming Code	(b)	Equalization			
	(c)	CRC	(d)	Stuffing			
(16)		topology has the	high	nest reliability.			
	(a)	Ring Topology	(b)	Mesh Topology			
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(17)	Star	rt and Stop bits are	use	d in Serial Communication for				
	(a)	Error Detection						
	(b)							
	(c)							
	(d)	Synchronization						
(18)	, ,	stands for						
	(a)		Prote	ocol				
	(b)	File Transfer Proto	col					
	(c)	c) Favorite 'Transfer Protocol						
	(d) False Transfer Protocol							
(19)	of the following are the Network services.							
	(a)	File Service	(b)	Database Service				
	(c)	Print Service	(d)	All of these				
(20)	The loss in signal power as light travel down the fiber is called							
	(a)	 Attenuation	(b)	Propagation				
	(c)	Scattering	(d)	Interruption				
		SECTI	ON	- B				
Ans	wer f	following questions :						
(a)	Write any three out of six:							
	(1)							
	(2)							
	(3)	Explain: CSMA/CA and CSMA/CD.						
	(4)	What is CARP? Explain working of it.						
	(5)	Explain: Fiber Optic Cable						
	(6)	Explain Message Switching and Packet Switching						
		techniques.						
(b)	Write any three out of six:							
		Write a note on Wireless Transmission media.						
	(1)	Write a note on W	irele	ss Transmission media.				
	<ul><li>(1)</li><li>(2)</li></ul>			ss Transmission media. b, Passive Hub, Intelligent Hub	ı			
	` ′		e Hu	b, Passive Hub, Intelligent Hub	1			
	(2)	Differentiate: Active	e Hu d Rl	b, Passive Hub, Intelligent Hub	'			
	(2) (3)	Differentiate: Active Explain L2CAP an	e Hu d Rl IC.	b, Passive Hub, Intelligent Hub FCOMM Protocol.	1			
	(2) (3) (4)	Differentiate: Active Explain L2CAP an Write a note on N	e Hud d Rl IC. Ss. O	b, Passive Hub, Intelligent Hub FCOMM Protocol. SI model.	,			

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- 10 (c) Write any two out of five: Explain OSI reference model in detail. What is Multiplexing? Explain its types. (3) Explain IP. Differentiate IPV4 and IPV6 within it. What is Router? Explain types of it. **(4)** List and explain various Network Services in detail. (5)Answer following questions: Write any three out of six: 6 Explain: Logging Events. (2) Define Apple Talk and IPX/SPX. (3) Explain Interior and Exterior routing protocol. **(4)** Explain: Gateway. **(5)** What is Protocol? Explain it. Explain Peer-to-Peer model. (b) Write any three out of six: 9 (1) Write a note on De facto and De Jurie standards. (2) What is modem? Explain its types... (3) Write a note on Repeaters. **(4)** Explain: BGP. **(5)** Explain: WEP. Write a note on network monitoring. (6) Write any two out of five: 10 (c) What is network topology? Briefly explain any two (1) of it.
  - Write a note on TCP/IP protocol. (2)
  - What is wireless communication? Explain Radio and Infrared transmission.
  - (4) Define CIA model. What is the importance of using it?
  - (5)List types of account in Windows Server 2003.

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