Subject: BCA

Paper name: Computer Networking

Paper No: **BCA403**

Semester: IV

A. Multiple choice questions [75 (15 from each unit)]

- 1. Computer Network is
 - a) Collection of hardware components and computers
 - b) Interconnected by communication channels
 - c) Sharing of resources and information
 - d) All of the above
- 2. What is a firewall
 - a) The physical boundary of network
 - b) An operating system of computer network
 - c) A system designed to prevent unauthorized access
 - d) A web browsing software
- 3. How many layers are there in OSI reference model?
 - a) 4
 - b) 5
 - c) 6
 - d) 7
- 4. Components of network does not include
 - a) Bandwidth
 - b) Sender
 - c) Receiver
 - d) Transmission medium
- 5. Set of rules that govern data communication is called
 - a) addressing
 - b) topology
 - c) Protocol
 - d) None of the above
- 6. Two way communication simultaneously
 - a) Full Duplex
 - b) Half-Duplex

	c) Duplex d) Simplex
7.	Types of networking addressing not include a) Physical b) Logical c) Port address d) None of the above
8.	The physical arrangement of your computer network is called a) OSI model b) TCP/IP model c) Topology d) None of the above
9.	Select the odd one a) LAN b) MAN c) WAN d) VAN
10.	The signal changes its form or shape (frequency change) a) Attenuation b) Distortion c) Noise d) All of the above
11.	It is a measure of how fast we can actually send data through a network a) bandwidth b) Throughput c) Latency d) Jitter
12.	are devices that can transmit data between two heterogeneous LAN's a) Repeaters b) Routers c) Bridges d) Gateway

13.	refers to information that is continuous.
	a) Data
	b) Analog signal
	c) Digital signal
	d) None of the above
14.	TCP/IP model don't have
	a) Data link layer
	b) Session layer
	c) Application layer
	d) Transport layer
15.	Choose the odd one
	a) Bus topology
	b) Star topology
	c) Physical topology
	d) Mesh topology
16.	A can be broadly defined as anything that can carry information from a
	source to destination.
	a) Bandwidth
	b) Gateway
	c) Transmission medium
	d) Network
17.	Types of Transmission media are
	a) Guided and Unguided
	b) Bridge and Repeater
	c) Baseband and Broadband
	d) None of the above
18.	Guided media don't include
	a) Optical fiber
	b) Coaxial Cable
	c) Token ring
	d) Twisted pair cable
19.	Connector used for twisted pair cable is
	a) RJ45
	b) BN45

	c) RG59
	d) RG11
	Radio waves travel through the lowest portion of the atmosphere, hugging the earth is called a) Line-of-sight propagation b) Sky propagation c) Ground propagation d) All of the above
21.	EHF stands for
	a) Extended High Frequency
	b) External High Frequency
	c) Extraordinary Hidden Force
	d) Extremely High Frequency
	ASK, PSK and FSK are example of conversion a) Digital to digital b) Digital to analog c) Analog to digital d) Analog to analog
23.	If the bit rate for an ASK signal is 1200 bps, the baud rate is
	a) 200
	b) 400
	c) 600
	d) 1200
	A circuit switch network is made of a set of switches connected by physical a) links b) media c) nodes d) lines
25.	Circuit switching takes place at
	a) session layer
	b) application layer
	c) data link layer
	d) physical layer

26.	The synchronous Time-Division Multiplexing (TDM) is not efficient because of
	a) higher data rate
	b) infinite frames
	c) empty slots
	d) Both a and c
27.	The multiplexing technique, in which each input connection has an allotment in the output
	even it it is not sending data is
	a) A synchronous TDM
	b) Synchronous TDM
	c) FDM
	d) WDM
28.	How many types of multiplexing techniques are there
	a) one
	b) Two
	c) Three
	d) Four
29.	Switching in the internet is done by using the datagram approach to packet switching at the
	a) network layer
	b) application layer
	c) data link layer
	d) physical layer
30.	The routing processor searching for the routing table is called
	a) switch fabric
	b) buffer
	c) table lookup
	d) rolling table
31.	The term means that only 1 bit of a given data unit is changed from 1 to 0 or
	from 0 to 1
	a) single bit error
	b) double bit error
	c) triple bit error
	d) None of the above

32.	. The term	_ means that 2 or more bits in the data unit have changed from 1
	to 0 or from 0 to 1.	
	a) Burst error	
	b) Coding error	
	c) syntax error	
	d) none of the above	
33.	. In cyclic redundancy check	ing, the divisor is the CRC
	a) The same size as	
	b) one bit less than	
	c) one bit more than	
	d) none of the above	
34.	. In error corre	ction, the receiver asks the sender to send the data again.
	a) backward	
	b) retransmission	
	c) forward	
	d) none of the above	
35.	. The between	two words is the number of differences between corresponding
	bits	
	a) Hamming code	
	b) Hamming distance	
	c) Hamming rule	
	d) None of the above	
36.	. ICMP stands for	
	a) Internet Control Media P	rotocol
	b) Internet Circuit Medium	Post
	c) Internet Control Message	Protocol
	d) Internet Circuit Module l	Protocol
37.	. The network layer protocol	for internet is
	a) Ethernet	
	b) Internet protocol	
	c) Hypertext transfer protoc	eol
	d) File transfer protocol	

38	IPV4 has bits
50.	a) 12
	b) 32
	c) 64
	d) 128
	u) 120
39.	IPV6 has bits
	a) 12
	b) 32
	c) 54
	d) 128
40.	Alternate and adaptive routing algorithm belongs to
	a) static routing
	b) permanent routing
	c) standard routing
	d) dynamic routing
41.	The term that refers to a set of procedures used to restrict the amount of data that the sender can send before waiting for acknowledgment is a) error control b) flow control c) delay d) byte stuffing
42.	Port address is also known as
	a) service point address
	b) Receiver point address
	c) Sender point address
	d) Both b & c
43.	Error control is the combination of
	a) error detection and error correction
	b) flow and error control
	c) bit stuffing and unstuffing
	d) byte stuffing and unstuffing
44.	ARQ stands for
	a) Automatic repeat quantization
	b) Automatic repeat request

	c) Automatic retransmission request d) Acknowledge repeat request
45.	The most common protocol for point to point access is the point to point protocol (PPP), which is a protocol a) bit-oriented b) byte-oriented c) character-oriented d) non of the above
46.	In a linear block code, the exclusive OR (XOR) or any two valid code words creates a) valid codeword b) invalid codeward c) valid data d) invalid data
	A simple parity-check code has admin= a) 0 b) 1 c) 2 d) 3
48.	A simple parity-check code is the most familiar a) error-correcting code b) error detecting code c) dataword d) both a and b
49.	The simplest protocol and the Stop-and-Wait Protocol are for channels a) noisy b) noiseless c) either a) or b) d) neither a) or b)
50.	The protocol has flow control, but not error control a) stop and wait b) simplest c) Go Back N ARQ d) Selective-Repeat ARQ

51.	The protocol has both flow control and error control	
	a) stop and wait	
	b) Go Back N ARQ	
	c) Selective-Repeat ARQ	
	d) both b) and c)	
52.	In Go-Back-N ARQ if 5 is the number of bits for the sequence number, then the maximum	n
	size of the receive window must be	
	a) 15	
	b) 16	
	c) 31	
	d) 1	
53.	control refers to a set of procedures used to restrict the amount of data the	
	sender can send before waiting for acknowledgment.	
	a) Flow	
	b) Error	
	c) Trasmission	
	d) none of the above	
54.	In PPP, the is a simple authentication procedure with a two-step process:	
	a) NCP	
	b) LCP	
	c) CHAP	
	d) PAP	
55.	In a protocol, the data section of a frame is a sequence of characters.	
	a) bit-oriented	
	b) character-oriented	
	c) either a or b	
	d) none of the above	
56.	TCP and UDP are called	
	a) Application protocol	
	b) Session protocol	
	c) Transport protocols	
	d) Network protocols	

57.	TCP is the standard protocol with std no? a) 4 b) 5 c) 6 d) 7
58.	Transport layer is which layer in OSI model a) Second layer b) Third layer c) Fourth layer d) Fifth layer
59.	Class C lies between a) 0-126 b) 240 - 255 c) 192 - 223 d) 128 - 191
60.	Web pages are stored at a) Server b) Client c) Domain d) Mail Server
61.	DNS stands for a) Domain New Server b) Digital Naming System c) Domain Name System d) Domain Name Service
62.	Which DNS client maps an address to a name or a name to an address especially when required by a host? a) Resolver b) Mapper c) Primary Server d) Secondary Server
63.	Full form of TELNET is a) Telecommunication Network b) Telephone Network

- c) Telegram Network
- d) Telephone Networking

64	Which language in	www	enecifies a	weh's way	hv	describing	three_din	nensional d	objects?
04.	willen language in	VV VV VV 2	specifies a	webs way	υy	describing	unee-am	iciisionai (シロ してしい :

- a) HTML
- b) VRML
- c) XML
- d) UML
- 65. Which field of cookie in WWW represents the server's directory structure by identifying the utilization of part associated with server's file tree?
 - a) Domain
 - b) Path
 - c) Content
 - d) Secure
- 66. FTP stands for
 - a) File Tranmission Protocol
 - b) File Transfer Protocol
 - c) File Transmission Procedure
 - d) File Transfer Priority
- 67. Which one of the following protocol delivers/stores mail to receiver server?
 - a) SMTP
 - b) POP
 - c) Internet mail access protocol
 - d) HTML
- 68. The ASCII encoding of binary data is called
 - a) base 64 encoding
 - b) base 32 encoding
 - c) base 16 encoding
 - d) base 8 encoding
- 69. Which one of the following allows a user at one site to establish a connection to another site and then pass keystrokes from local host to remote host?
 - a) HTTP
 - b) FTP
 - c) TELNET
 - d) TCP

70.	Application layer protocol defines a) types of messages exchanged b) message format, syntax and semantics c) rules for when and how processes send and respond to messages d) all of the above
71.	The data link control portion of most LAN protocols in use today is based on a) FDDI b) HDLC c) ANSI d) SDLC
72.	IEEE 802.1 is concerned with issues in LANs and MANs a) error b) networking c) internetworking d) flow control
73.	Ethernet, Token Ring and Token Bus are all different types of a) VANs b) WANs c) MANs d) LANs
74.	The flag, CRC, and station address fields are added to the PDU at the layer a) Physical b) network c) LLC d) MAC
75.	A 100Base-T Ethernet LAN has a data rate of Mbps. a) 1 b) 10 c) 100 d) 1000

B. Fill up the blanks [15 (3 from each unit)]

I.	In simplex transmission data can be transmitted in direction.
2.	The fourth layer of an OSI model is layer.
3.	Information that has discrete states is signal.
4.	Guided media transmission is done physical medium of through a cable where as
	is data signals that flow through the air.
5.	cables are made up of glass or plastic and transmit signals in the form of
	light.
6.	The sharing of a medium and its link by two or more devices is called
7.	Stop-And-Wait is also known as behavior
8.	The full form of CRC is
9.	The data link layer takes the packets from layer and encapsulates them into
	frames for transmission
10.	In IPV4, B class ranges from to
11.	The combination of an IP address and a port number is called a address.
12.	provides process-to-process, full-duplex, and connection-oriented service.
13.	There are two types of DNS messages and
14.	is a client/server application that allows as usr to log on to a remote machine,
	giving the user access to the remote system.
15.	is a language used to create static web pages.

Key Answers

A. Multiple choice questions

1. d)	2. c)	3. d)	4. a)	5. c)	6. a)	7. d)
8. c)	9. d)	10. b)	11. b)	12. c)	13. b)	14. b)
15. c)	16. c)	17. a)	18. c)	19. a)	20. c)	21. d)
22. b)	23. d)	24. a)	25. d)	26. c)	27. b)	28. c)
29. a)	30. c)	31. a)	32. a)	33. c)	34. b)	35. b)
36. d)	37. b)	38. b)	39. d)	40. d)	41. b)	42. a)
43. a)	44. b)	45. b)	46. a)	47. c)	48. b)	49. b)
50. a)	51. d)	52. d)	53. a)	54. d)	55. b)	56. c)
57. d)	58. c)	59. c)	60. a)	61. c)	62. a)	63. b)
64. b)	65. b)	66. b)	67. a)	68. a)	69. c)	70. d)
71. b)	72. c)	73. d)	74. d)	75. c)		

B. Fill up the blanks key answers

- 1. one
- 2. transport
- 3. digital
- 4. unguided media
- 5. Fibre optics
- 6. multiplexing
- 7. pingpong
- 8. cyclic redundancy check
- 9. network
- 10. 128 to 191
- 11. socket
- 12. TCP
- 13. Queries and responses
- 14. TELNET
- 15. HTML