

BRAINWARE UNIVERSITY

Term End Examination 2021 - 22 Programme – Diploma in Computer Science & Engineering Course Name – Computer Network Course Code - DCSE603 (Semester VI)

Time allotted: 1 Hrs.15 Min. Full Marks: 60 [The figure in the margin indicates full marks.] Group-A (Multiple Choice Type Question) 1 x 60=60 Choose the correct alternative from the following: (1) Which data communication method is used to transmit the data over a serial communication lin k? a) Full-duplex b) Simplex c) Half-duplex d) None of these (2) The network layer concerns with a) Bits b) Frames d) None of these c) Packets (3) Which one of the following is a transport layer protocol used in networking? a) TCP b) UDP c) Both TCP and UDP d) None of these is a device that forwards packets between networks by processing the routing info rmation included in the packet. a) Bridge b) Router c) Hub d) Switch (5) A set of rules that governs data communication is called b) Standards a) Protocols c) RFC d) None (6) What is the full form of UDP? a) User Data Protocol b) User Datagram Protocol c) Unlimited Data Protocol d) None (7) Which layer of the OSI model is responsible for combining bits into bytes and bytes into frames?

a) Presentation

c) Application

b) Data Link

d) Transport

a) 2 or 3	b) 4 or 5
c) 6	d) 7
(9) The network layer protocol of Internet is	
a) Ethernet	b) Internet Protocol
c) Hypertext Transfer Protocol	d) None
10) In which topology there is a central controller or hub?	
a) Ring	b) Star
c) Hub	d) Mesh
11) Which is not an application layer protocol?	
a) HTTP	b) SMTP
c) TCP	d) FTP
 To deliver a message to the correct application programust be consulted. 	m running on a host, the address
a) MAC	b) Port
c) IP	d) None
13) Which of the following commands sets the secret pass	sword on a router to Cisco?
a) enable secret password cisco	b) enable password Cisco
c) enable secret cisco	d) None
14) To create a loop less technology, a bridge can use	
a) Prim's algorithm	b) Spanning tree algorithm
c) Marshall's algorithm	d) None
15) Which of the following is a dynamic mapping method al address?	that finds a physical address, given a logic
a) ARP	b) RARP
c) BootP	d) None
16) Which of the following is an application program that ity of a host?	uses the services of ICMP to test reachabil
a) Trace	b) Call
c) Ping	d) None
17) The method of communication in which transmission direction at a time is called	takes place in both directions, but only one
a) Simplex	b) Four wire circuit
c) Full duplex	d) Half duplex
18) A decrease in magnitude of current, voltage or power is known as	of a signal in transmission between points,
a) Attenuation	b) Amplitude
c) Aloha	d) Carrier
19) You are working with a network that has the network for your company and an additional 30 for the compant Each network will contain approximately 600 hosts. V	ny that will merge with you within a month.
a) 255.255.192.0	b) 255.255.224.0
c) 255.255.248.0	d) 255.255.252.0
20) What operates in the Data Link layer and Network La	yer?
a) Router	b) Switch
c) Brouter	d) NIC
21) Which of the following allows devices on one network	k to communicate with devices on another

net mask?

network?		
a) Multiplexer	b) Gateway	
c) T-switch	d) Modem	
(22) Error detection at the data link level is achieved by		
a) Bit stuffing	b) Cyclic redundancy code	
c) Hamming code	d) Equalization	
(23) Which of the following TCP/IP protocol is used for ne machine to another?	transferring electronic mail messages from o	
a) FTP	b) SNMP	
c) SMTP	d) RPC	
(24) When you ping the loopback address, a packet is se	nt where?	
a) On the network	b) Down through the layers of the IP architecture an d then up the layers again	
c) Across the wire	d) None	
(25) Ethernet frame consists of		
a) MAC address	b) IP address	
c) Both MAC and IP address	d) None	
(26) Which of the following is not a cause of LAN congestion?		
a) Too many hosts in a broadcast domain	b) Adding switches for connectivity to the network	
c) Broadcast storms	d) Low bandwidth	
(27) When an HTTP document must be retrieved from a layer of the OSI model must be accessed first?	location other than the local machine, which	
a) Presentation layer	b) Application	
c) Transport layer	d) Network layer	
(28) Which of the following contention mechanisms is u	sed by Ethernet?	
a) Token passing	b) CSMA/CD	
c) CSMA/CA	d) Host polling	
(29) Which of the following protocols uses both TCP an	d UDP?	
a) FTP	b) SMTP	
c) TELNET	d) DNS	
(30) If your routing table has a static, a RIP and an EIGF l be used to route packets by default?	RP route to the same network, which route wil	
a) Any available route	b) RIP route	
c) Static route	d) EIGRP route	
(31) A device that links two homogenous packet-broadcast local networks is		
a) Gateway	b) Bridge	
c) Repeater	d) Hub	
(32) The simultaneous transmission of data to a number	of stations is known as	
a) Broadcast	b) Aloha	
c) Analog transmission	d) None of these	
(33) Which of the following protocol is connection orien	•	
a) TCP	b) UDP	
c) IPX	d) NetBEUI	
(34) Which protocol is used between E-Mail servers?	, - ·	
a) POP3	b) SMTP	
a) FTP	d) SNMP	

(35) Which layer in the TCP/IP stack is equivalent to the	Transport layer of the OSI model?
a) Application	b) Host-to-host
c) Internet	d) Nework Access
(36) A virtual local area network(VLAN) is configured by	,
a) Hardware	b) Software
c) Protocol Stack	d) None
(37) In which of the following modes do you need to be to	set RIP as your routing protocol?
a) Router>	b) Router(config)#
c) Router#	d) Router(config-if)#
(38) In the operation of CSMA/CD, which host(s) have prorithm?	iority after the expiration of the backoff alg
a) All hosts have equal priority	b) The two hosts that caused the collision will have equal priority
c) The host that sent the jam signal after the collissio n	d) The host with the highest MAC address
(39) Your senior network administrator wants you to monime. Which of the following commands would you issue.	· ·
a) show ip route	b) show processes
c) debug ip rip	d) show ip rip
(40) For a switch to forward frames out of its network seg bal configuration mode?	ment, what command must be issued in glo
a) ip default-gateway	b) routing enabled
c) router rip	d) router ip
(41) A switch typically operates at layer 2 of the OSI mod o help create broadcast domains?	el. What layer 3 functionality can it utilize t
a) Full-duplex	b) VLANs
c) Half-duplex	d) RIP
(42) What type of address does a layer 2 switch utilize?	
a) Media Access Control	b) Burned Access Address
c) Internet Protocol Address	d) Internet Packet Exchange
(43) What is the maximum number of VLANs that can be	configured on a switch?
a) 24	b) Switch-dependent
c) 8	d) 255
(44) You want to verify VLAN membership on a Cisco Ca AN assignment and membership type for all switch p extra information. Which command best displays this	orts, however you do not want to view any
a) show vlan brief	b) display vtp brief
c) show vlan short	d) display vtp short
(45) Multipoint topology is	
a) Bus	b) Star
c) Ring	d) Mesh
(46) ISP stands for	
a) Internet Service Provider	b) International Service Provider
c) Internet System Provider	d) International Systems Provider
(47) When displaying a web page, the application layer us	es the
a) HTTP protocol	b) SMTP protocol
c) FTP protocol	d) None

(48) Which sublayer of the data link layer perform medium?	s data link functions that depend upon the type of
a) Logical link control sublayer	b) Media access control sublayer
c) Network interface control sublayer	d) None
(49) Time required for a message to travel from on	ne device to another is known as:
a) Transit time	b) Dialogue time
c) Response time	d) Wait time
(50) What is the default subnet mask for a class C	network?
a) 255.255.255.0	b) 127.0.0.1
c) 255.0.0.0	d) 255.255.0.0
(51) What is the first octet range for a class A IP a	ddress?
a) 1-124	b) 1-125
c) 1-129	d) None of these
(52) Which command displays RIP routing update	s?
a) show ip route	b) debug ip rip
c) show ip rip	d) show protocols
(53) Which of the following is private IP address?	
a) 12.2.3.0	b) 172.15.14.36
c) 168.172.19.39	d) 192.168.24.43
(54) Which layer 4 protocol is used for a TELNET	connection?
a) IP	b) TCP/IP
c) TCP	d) UDP
(55) Which layer 1 device can be used to enlarge to	he area covered by a single LAN segment?
a) Hub	b) NIC
c) Bridge	d) Router
(56) URL stands for	
a) Uniform resource locator	b) Unique reference label
c) Unified resource locator	d) None of these
(57) To join the Internet, the computer has to be co	onnected to a
a) Internet society	b) Internet service provider
c) Internet architecture board	d) None of these
(58) Which of the following transmission direction	ns listed is not a legitimate channel?
a) Simplex	b) Half Duplex
c) Full Duplex	d) Double Duplex
(59) A collection of hyperlinked documents on the	e internet forms the
a) World Wide Web (WWW)	b) E-mail system
c) Mailing list	d) Hypertext markup language
(60) A proxy server is used as the computer?	
a) With external access	b) Acting as a backup
c) Performing file handling	d) Accessing user permissions