

# Online Examinations (Even Sem/Part-I/Part-II Examinations 2020 - 2021)

Course Name - –Computer Network

Course Code - DCSE603

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Answer all the questions. Each question carry one mark.

9. 1.What is the subnetwork address for a host with the IP address of [200.10.5.68/28](#)?

*Mark only one oval.*

- 200.10.5.56
- 200.10.5.32
- 200.10.5.64
- 200.10.5.0

10. 2. When you issue the ping command, which protocol are you using?

*Mark only one oval.*

- DNS
- DHCP
- ARP
- ICMP

11. 3. 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?

*Mark only one oval.*

- HTTP
- Telnet
- FTP
- None of these

12. 4. Parity bits are used for which of the following purposes?

*Mark only one oval.*

- Encryption of data
- To transmit faster
- To detect errors
- To identify the user

13. 5.Which one of the following is an internet standard protocol for managing devices on IP network?

*Mark only one oval.*

- Dynamic host configuration protocol
- Simple network management protocol
- Internet message access protocol
- Media gateway protocol

14. 6.Which one of the following is a transport layer protocol used in networking?

*Mark only one oval.*

- TCP
- UDP
- Both TCP and UDP
- None of these

15. 7.Ethernet frame consists of

*Mark only one oval.*

- MAC address
- IP address
- Both MAC and IP address
- None

16. 8.A router is connected to the 10.4.0.0 network. This link fails. It immediately set the metric on this route to infinity. What did the router just engage in?

*Mark only one oval.*

- Route poisoning
- Triggered update
- Poison reverse
- Split horizon

17. 9.URL stands for

*Mark only one oval.*

- Uniform resource locator
- Unique reference label
- Unified resource locator
- none of these

18. 10. In \_\_\_\_\_ systems, resources are allocated on demand

*Mark only one oval.*

- packet switching
- circuit switching
- line switching
- frequency switching

19. 11.What operates in the Data Link layer and Network Layer?

*Mark only one oval.*

- Router
- Switch
- Brouter
- NIC

20. 12.In order for traffic to pass from one VLAN to another, what device is required that can understand trunking protocols?

*Mark only one oval.*

- Router
- Trunking bridge
- Switch
- Hub

21. 13.Which layer 4 protocol is used for a TELNET connection?

*Mark only one oval.*

- IP
- TCP/IP
- TCP
- UDP



22. 14. Which of the following algorithms is not used in asymmetric-key cryptography?

*Mark only one oval.*

- RSA algorithm
- Diffie-Hellman algorithm
- Electronic code book algorithm
- None of these

23. 15. IPv6 does not use \_\_\_\_\_ type of address.

*Mark only one oval.*

- Broadcast
- Multicast
- Anycast
- Unicast

24. 16. Which of the following is an application program that uses the services of ICMP to test reachability of a host?

*Mark only one oval.*

- Trace
- Call
- Ping
- None

25. 17.What does RIP version2 use to prevent routing loops?

*Mark only one oval.*

- CIDR
- Split horizon
- Classless masking
- Authentication

26. 18.You type debug ip rip on your router console and see that the 172.16.10.0 is being advertised to you with a metric of 16. What does that mean?

*Mark only one oval.*

- The route is 16 hops away
- The route has a delay of 16 microseconds
- The route is inaccessible
- None of these

27. 19.The term IANA stands for?

*Mark only one oval.*

- Internet Assigned Numbers Authority
- Internal Assigned Numbers Authority
- Internet Associative Numbers Authoritative
- Internal Associative Numbers Authority

28. 20.What is data encryption standard (DES)?

*Mark only one oval.*

- Block cipher
- Stream cipher
- Bit cipher
- Byte cipher

29. 21.This topology requires multipoint connection.

*Mark only one oval.*

- Bus
- Mesh
- Star
- None

30. 22.Which layer in the TCP/IP stack is equivalent to the Transport layer of the OSI model?

*Mark only one oval.*

- Application
- Host-to-host
- Internet
- Network Access

31. 23. Select the correct cable that transport signals in the form of light :

*Mark only one oval.*

- Twisted-Pair cable
- Fiber-optic cable
- Co-Axial cable
- Shielded Twisted Pair cable

32. 24. Which one of the following is the most common internet protocol?

*Mark only one oval.*

- HTML
- NetBEUI
- TCP/IP
- IPX/SPX

33. 25. In TCP, sending and receiving data is done as \_\_\_\_\_

*Mark only one oval.*

- Stream of bytes
- Sequence of characters
- Lines of data
- Packets

34. 26.You have a network the needs 29 subnets while maximizing the number of host addresses available on each subnet. How many bits must you borrow from the host field to provide the correct subnet mask?

*Mark only one oval.*

- 2 or 3
- 4 or 5
- 6
- 7

35. 27.Which of the following commands sets a trunk port on a Cisco 2960 switch?

*Mark only one oval.*

- trunk on
- trunk all
- switchport trunk on
- switchport mode trunk

36. 28.MAC address is of

*Mark only one oval.*

- 24
- 36
- 42
- 48

37. 29.The location of a resource on the internet is given by its?

*Mark only one oval.*

- Protocol
- URL
- E-mail address
- ICQICQ

38. 30.Which protocol is a signaling communication protocol used for controlling multimedia communication sessions?

*Mark only one oval.*

- Session initiation protocol
- Session modelling protocol
- Session maintenance protocol
- Resource reservation protocol

39. 31.A \_\_\_\_\_ is a device that forwards packets between networks by processing the routing information included in the packet.

*Mark only one oval.*

- Bridge
- Router
- Hub
- Switch

40. 32,Which of the following is not a cause of LAN congestion?

*Mark only one oval.*

- bubbleToo many hosts in a broadcast domain
- Adding switches for connectivity to the network
- Broadcast storms
- Low bandwidth

41. 33.Multipoint topology is

*Mark only one oval.*

- Bus
- Star
- Ring
- Mesh

42. 34.Expansion of FTP is

*Mark only one oval.*

- File Transfer Protocol
- Fine Transfer Protocol
- Fast Transfer Protocol
- Fastest Transmission Protocol

43. 35.Which one of the following is an architecture paradigms?

*Mark only one oval.*

- Peer to peer
- Client-server
- HTTP
- Both Peer-to-Peer & Client-Server

44. 36.Error detection at the data link level is achieved by

*Mark only one oval.*

- Bit stuffing
- Cyclic redundancy code
- Hamming code
- Equalization

45. 37.What is a disadvantage of using a connection-oriented protocol such as TCP?

*Mark only one oval.*

- Packet acknowledgement might add overhead
- Loss of data packets is more likely to occur
- Packets are not tagged with sequence numbers
- None



46. 38.What is the address range of a class B network address in binary?

*Mark only one oval.*

01xxxxxx

10xxxxxx

0xxxxxxx

110xxxxx

47. 39.The term WAN stands for?

*Mark only one oval.*

Wide Area Net

Wide Access Network

Wide Area Network

Wide Access Net

48. 40.SSH can be used in only \_\_\_\_\_

*Mark only one oval.*

Unix-like operating systems

Windows

Mac

Both unix-like and windows systems

49. 41.Which protocol reduces administrative overhead in a switched network by allowing the configuration of a new VLAN to be distributed to all the switches in a domain?

*Mark only one oval.*

- STP
- VTP
- DHCP
- ISL

50. 42.For a switch to forward frames out of its network segment, what command must be issued in global configuration mode?

*Mark only one oval.*

- ip default-gateway
- routing enabled
- router rip
- router ip

51. 43.You want to implement a mechanism that automates the IP configuration, including IP address, subnet mask, default gateway, and DNS information. Which protocol will you use to accomplish this?

*Mark only one oval.*

- DHCP
- SNMP
- SMTP
- ARP

52. 44. On a simplex data link, which of the following is a possible error recovery technique?

*Mark only one oval.*

- Backward error correction
- The use of hamming codes
- Automatic Repeat Request
- Downward error correction

53. 45. EIGRP can support \_\_\_\_\_

*Mark only one oval.*

- VLSM/subnetting
- Auto summary
- Unequal cost load balancing
- All of these

54. 46. Which of the following commands displays the configurable parameters and statistics of all interfaces on a Cisco router?

*Mark only one oval.*

- show running-config
- show start-up config
- show interfaces
- show versions

55. 47.A virtual local area network(VLAN) is configured by

*Mark only one oval.*

- Software
- Hardware
- Protocol Stack
- None

56. 48.The transfer of data from a CPU to peripheral devices of a computer is achieved through

*Mark only one oval.*

- Modems
- Computer ports
- Buffer memory
- None of these

57. 49.The maximum length (in bytes) of an IPv4 datagram is?

*Mark only one oval.*

- 32
- 1024
- 65535
- 512

58. 50.TCP process may not write and read data at the same speed. So we need \_\_\_\_\_ for storage

*Mark only one oval.*

- Packets
- Buffer
- Segments
- Stack

59. 51.What is the subnetwork number of a host with an IP address of [172.16.66.0/21](#)?

*Mark only one oval.*

- 172.16.36.0
- 172.16.48.0
- 172.16.64.0
- 172.16.0.0

60. 52.The simultaneous transmission of data to a number of stations is known as

*Mark only one oval.*

- Broadcast
- Aloha
- Analog transmission
- None of these

61. 53.RIP sends periodic updates out all active interfaces every

*Mark only one oval.*

- 20 seconds
- 30 seconds
- 40 seconds
- 25 seconds

62. 54.The term HTTP stands for?

*Mark only one oval.*

- Hyper terminal tracing program
- Hypertext tracing protocol
- Hypertext transfer protocol
- Hypertext transfer program

63. 55.When displaying a web page, the application layer uses the \_\_\_\_\_

*Mark only one oval.*

- HTTP protocol
- FTP protocol
- SMTP protocol
- TCP protocol

64. 56.Which of the following is not a function of a router?

*Mark only one oval.*

- Packet Switching
- Maintaing access control lists
- Path selection
- Maintaining a filter table

65. 57.Which of the following contention mechanisms is used by Ethernet?

*Mark only one oval.*

- Token passing
- CSMA/CD
- CSMA/CA
- Host polling

66. 58.ISP stands for

*Mark only one oval.*

- Internet Service Provider
- International Service Provider
- Internet System Provider
- International Systems Provider

67. 59.Which of these is a standard interface for serial data transmission?

*Mark only one oval.*

- ASCII
- RS232C
- 2
- Centronics

68. 60.The \_\_\_\_\_ translates internet domain and host names to IP address

*Mark only one oval.*

- domain name system
- routing information protocol
- network time protocol
- internet relay chat

69. 61.Network congestion occurs

*Mark only one oval.*

- In case of traffic overloading
- When a system terminates
- When connection between two nodes terminates
- None of these



70. 62. When you ping the loopback address, a packet is sent where?

*Mark only one oval.*

- On the network
- Down through the layers of the IP architecture and then up the layers again
- Across the wire
- None

71. 63. You want to verify VLAN membership on a Cisco Catalyst 2950 switch. You want to display VLAN assignment and membership type for all switch ports, however you do not want to view any extra information. Which command best displays this information?

*Mark only one oval.*

- show vlan brief
- display vtp brief
- show vlan short
- display vtp short

72. 64. Which layer 1 device can be used to enlarge the area covered by a single LAN segment?

*Mark only one oval.*

- Hub
- NIC
- Bridge
- Router

73. 65. Most packet switches use this principle \_\_\_\_\_

*Mark only one oval.*

- Stop and wait
- Store and forward
- Store and wait
- Stop and forward

74. 66. A decrease in magnitude of current, voltage or power of a signal in transmission between points, is known as

*Mark only one oval.*

- Attenuation
- Amplitude
- Aloha
- Carrier

75. 67. A switch typically operates at layer 2 of the OSI model. What layer 3 functionality can it utilize to help create broadcast domains?

*Mark only one oval.*

- bubble
- VLANs
- Half-duplex
- RIP

76. 68.The Dod Model(also called TCP/IP stack)has four layers. Which layer of the DoD model is equivalent to the Network layer of the OSI Model?

*Mark only one oval.*

- Application
- Internet
- Host-to-Host
- Network Access

77. 69.Which of the following is true with regard to the ping command?

*Mark only one oval.*

- Ping stands for Packet Internet Generator
- The ping command checks the port level connectivity between source destinations end points
- Ping summarizes the packet loss and round-trip delay between two IP end points
- The ping command activates the RARP protocol of the IP layer

78. 70.Which of the following demerits does Fragmentation have?

*Mark only one oval.*

- Complicates routers
- Open to DOS attack
- Overlapping of fragments
- All of these

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