

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

Course Name - –Computer Networks

Course Code - PCC-CS602

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Answer all the questions. Each question carry one mark.

9. 1. If the number of nodes in a mesh topology is  $n$ , then the total number of links in the topology will be

*Mark only one oval.*

- N
- $n(n+1)/2$
- $n^2$
- $n(n-1)/2$

10. 2. High SNR value indicates to

*Mark only one oval.*

- High signal power
- Low signal power
- High noise power
- High attenuation

11. 3. The topology with highest reliability is

*Mark only one oval.*

- Bus
- Mesh
- Ring
- Star

12. 4. Multipoint topology is

*Mark only one oval.*

- Bus
- Star
- Ring
- Mesh

13. 5. A set of rules that governs data communication is called

*Mark only one oval.*

- Protocols
- Standards
- RFC
- Aggrement

14. 6. Which topology requires multipoint connection?

*Mark only one oval.*

- Bus
- Mesh
- Star
- Ring

15. 7. Which of the following is not a cause of LAN congestion?

*Mark only one oval.*

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

16. 8. A virtual local area network(VLAN) is configured by

*Mark only one oval.*

- Hardware
- Software
- Protocol Stack
- None

17. 9. What is the maximum number of VLANs that can be configured on a switch?

*Mark only one oval.*

- 24
- Switch-dependent
- 8
- 255

18. 10. ISP stands for

*Mark only one oval.*

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

19. 11. Time required for a message to travel from one device to another is known as:

*Mark only one oval.*

- Transit time
- Dialogue time
- Response time
- Wait time

20. 12. 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

21. 13. What are the methods to move data through a network of links and switches?

*Mark only one oval.*

- Packet switching
- Circuit switching
- Both packet and circuit switching
- Line switching

22. 14. What operates in the Data Link layer and Network Layer?

*Mark only one oval.*

- Router
- Switch
- Brouter
- NIC

23. 15. Which of the following contention mechanisms is used by Ethernet?

*Mark only one oval.*

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

24. 16. In the operation of CSMA/CD, which host(s) have priority after the expiration of the backoff algorithm?

*Mark only one oval.*

- All hosts have equal priority
- The two hosts that caused the collision will have equal priority
- The host that sent the jam signal after the collision
- The host with the highest MAC address

25. 17. Which sublayer of the data link layer performs data link functions that depend upon the type of medium?

*Mark only one oval.*

- Logical link control sublayer
- Media access control sublayer
- Network interface control sublayer
- None

26. 18. 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

27. 19. Burst error refers to

*Mark only one oval.*

- Single bit error
- Even bit error
- Odd bit error
- Multi bit error

28. 20. Parity checking is a

*Mark only one oval.*

- Error controlling method
- Error correcting method
- Flow controlling method
- Error detecting method

29. 21. Efficiency of slotted ALOHA is

*Mark only one oval.*

- Same as pure ALOHA
- Double compared to pure ALOHA
- Triple compared to pure ALOHA
- Half compared to pure ALOHA

30. 22. Vulnerable time in case of pure ALOHA is

*Mark only one oval.*

- Same as transmission time
- Twice of transmission time
- Half of transmission time
- Independent of transmission time

31. 23. Sender window size with  $n$  bit sequence number in case of Go-Back-N ARQ is

*Mark only one oval.*

$n$

$2n$

$2n + 1$

$2n - 1$

32. 24. Persistence method used in

*Mark only one oval.*

ALOHA protocol

CSMA protocol

Point to point protocol

CDMA protocol

33. 25. Maximum throughput capacity available for slotted ALOHA in percentage is

*Mark only one oval.*

10

18

24

36

34. 26. The network layer concerns with

*Mark only one oval.*

- Bits
- Frames
- Packets
- Segments

35. 27. Which mask should you use on point to point WAN links in order to reduce the waste of IP addresses?

*Mark only one oval.*

- /27 or /28
- /29
- /30
- /31

36. 28. Which of the following is not a function of a router?

*Mark only one oval.*

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

37. 29. You have a network that 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

38. 30. 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

39. 31. You need to subnet a network that has 5 subnets, each with at least 16 hosts. What classful subnet mask would you use?

*Mark only one oval.*

- 255.255.255.192
- 255.255.255.224
- 255.255.255.240
- None

40. 32. You are working with a network that has the network ID 172.16.0.0 , and you require 25 subnets for your company and an additional 30 for the company that will merge with you within a month. Each network will contain approximately 600 hosts. What subnet mask should you assign?

*Mark only one oval.*

- 255.255.192.0
- 255.255.224.0
- 255.255.248.0
- 255.255.252.0

41. 33. What class of IP address provides a maximum of only 254 host addresses per network ID?

*Mark only one oval.*

- Class A
- Class C
- Class B
- Class D

42. 34. Your senior network administrator wants you to monitor the RIP traffic on your network in real time. Which of the following commands would you issue?

*Mark only one oval.*

- show ip route
- show processes
- debug ip rip
- show ip rip

43. 35. Which of the following class of IP addresses is utilized for multicasting?

*Mark only one oval.*

- Class A
- Class B
- Class C
- Class D

44. 36. Which one of the following routing algorithm can be used for network layer design?

*Mark only one oval.*

- Shortest path algorithm
- Link state algorithm
- Distance vector algorithm
- All of the mentioned

45. 37. RIP sends periodic updates out all active interfaces every

*Mark only one oval.*

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

46. 38. What is the first octet range for a class A IP address?

*Mark only one oval.*

1-120

0-125

0-127

1-125

47. 39. Which command displays RIP routing updates?

*Mark only one oval.*

show ip route

debug ip rip

show ip rip

show protocols

48. 40. Which of the following is private IP address?

*Mark only one oval.*

12.2.3.0

172.15.14.36

168.172.19.39

192.168.24.43

49. 41. DSL refers to

*Mark only one oval.*

- Data Subscriber Line
- Data Suppression Layer
- Digital Suppression Layer
- Digital Subscriber Line

50. 42. In a network, If P is the only packet being transmitted and there was no earlier transmission, which of the following delays could be zero?

*Mark only one oval.*

- Propagation delay
- Queuing delay
- Transmission delay
- Processing delay

51. 43. Subnet mask in class A has 14 1's. How many subsets does it define?

*Mark only one oval.*

- 8
- 32
- 64
- 128

52. 44. Which address to be consulted to deliver a message to the correct application program running on a host?

*Mark only one oval.*

- MAC
- Port
- IP
- Logical

53. 45. 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

54. 46. Process to process communication provided by

*Mark only one oval.*

- Transport layer
- Physical layer
- Network layer
- Application layer

55. 47. Ranges of Well-known ports are

*Mark only one oval.*

- 1 to 80
- 0 to 256
- 1 to 512
- 0 to 1023

56. 48. Number of buffer used for flow control in Transport layer is

*Mark only one oval.*

- 2
- 4
- 6
- 8

57. 49. Which of the following TCP/IP protocol is used for transferring electronic mail messages from one machine to another?

*Mark only one oval.*

- FTP
- SNMP
- SMTP
- RPC

58. 50. 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
- On the medium

59. 51. Which of the following protocols uses both TCP and UDP?

*Mark only one oval.*

- FTP
- SMTP
- TELNET
- DNS

60. 52. Port number within a data packet indicates

*Mark only one oval.*

- LAN card number
- NIC card number
- Specific service point address
- Host identification number

61. 53. When using TCP, after a session is open, the applications can adjust the amount of segments they receive before sending an acknowledgement. This behavior is known as

*Mark only one oval.*

- MTU adjustment
- Flexible send path
- Windowing
- FCS

62. 54. 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
- Loss of synchronization

63. 55. Discarding policy is mainly done by

*Mark only one oval.*

- Router
- Receiver
- Sender
- Switch

64. 56.The technique in which a congested node stops receiving data from the immediate upstream node or nodes is called as

*Mark only one oval.*

- Backpressure
- Forward signaling
- Backward signaling
- Admission policy

65. 57.The packet sent by a node to the source to inform it of congestion is called

*Mark only one oval.*

- Choke
- Discard
- Explicit
- Backpressure

66. 58. 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
- lookup

67. 59. Which command would you place on interface connected to the Internet?

*Mark only one oval.*

- ipnat inside
- ipnat outside
- ip outside global
- ip inside local

68. 60. 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

69. 61. When you issue the ping command, which protocol you are using?

*Mark only one oval.*

- DNS
- DHCP
- ARP
- ICMP

70. 62. Which protocol is used between E-Mail servers?

*Mark only one oval.*

- POP3
- SMTP
- FTP
- SNMP

71. 63. 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
- BootP

72. 64. When displaying a web page, the application layer uses the

*Mark only one oval.*

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

73. 65.If you use either TELNET or FTP, which is the highest layer you are using to transmit data?

*Mark only one oval.*

- Application
- Session
- Presentation
- Transport

74. 66. Which layer 4 protocol is used for a TELNET connection?

*Mark only one oval.*

- IP
- TCP/IP
- TCP
- UDP

75. 67. URL stands for

*Mark only one oval.*

- Uniform resource locator
- Unique reference label
- Unified resource locator
- None

76. 68. What is autonegotiation?

*Mark only one oval.*

- A security algorithm
- A routing algorithm
- A procedure by which two connected devices choose common transmission parameters
- None

77. 69. Electronic mail uses which Application layer protocol?

*Mark only one oval.*

- FTP
- HTTP
- SCTP
- SMTP

78. 70. The ASCII encoding of binary data is called

*Mark only one oval.*

- base 8 encoding
- base 16 encoding
- base 64 encoding
- base 32 encoding

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