

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

Course Name - –Computer Network

Course Code - PCC-EC602

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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. The topology with highest reliability is

*Mark only one oval.*

Bus

Mesh

Ring

Star

11. 3. 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

12. 4. A set of rules that governs data communication is called

*Mark only one oval.*

Protocols

Standards

RFC

Aggrement

13. 5. Which layer of the OSI model is responsible for combining bits into bytes and bytes into frames?

*Mark only one oval.*

- Presentation
- Data Link
- Application
- Transport

14. 6. In which topology there is a central controller or hub?

*Mark only one oval.*

- Ring
- Star
- Hub
- Mesh

15. 7. The method of communication in which transmission takes place in both directions, but only one direction at a time is called

*Mark only one oval.*

- Simplex
- Four wire circuit
- Full duplex
- Half duplex

16. 8. 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

17. 9. A device that links two homogenous packet-broadcast local networks is

*Mark only one oval.*

- Gateway
- Bridge
- Router
- Hub

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 DodModel (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. Ethernet frame consists of

*Mark only one oval.*

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



22. 14. To create a loop less technology, a bridge can use

*Mark only one oval.*

- Prim's algorithm
- Spanning tree algorithm
- Marshall's algorithm
- None

23. 15. Which of the following allows devices on one network to communicate with devices on another network?

*Mark only one oval.*

- Multiplexer
- Gateway
- T-switch
- Modem

24. 16. Which of the following contention mechanisms is used by Ethernet?

*Mark only one oval.*

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

25. 17. What type of address does a layer 2 switch utilize?

*Mark only one oval.*

- Media Access Control
- Burned Access Address
- Internet Protocol Address
- Internet Packet Exchange

26. 18. MAC address consists of

*Mark only one oval.*

- 24
- 32
- 42
- 48

27. 19. 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

28. 20. Hamming code is a

*Mark only one oval.*

- Congestion control method
- Forward error detection method
- Forward error correction method
- Backward error correction method

29. 21. Parity checking is a

*Mark only one oval.*

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

30. 22. 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

31. 23. Pure ALOHA has a maximum efficiency of

*Mark only one oval.*

18%

36%

50%

72%

32. 24. Modulo-2 division arithmetic used in

*Mark only one oval.*

Parity checking method

Checksum method

CRC method

Orthogonal method

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

*Mark only one oval.*

$n$

$2n$

$2n + 1$

$2n - 1$

34. 26. The hamming distance for the code d(000,011) is

*Mark only one oval.*

0

1

2

3

35. 27. 10Base5 Ethernet implementation medium is

*Mark only one oval.*

2 UTP

2 Fiber

Thick coax

Thin coax

36. 28. The network layer concerns with

*Mark only one oval.*

Bits

Frames

Packets

Segments

37. 29. 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

38. 30. Which device forwards packets between networks by processing the routing information included in the packet.

*Mark only one oval.*

- Bridge
- Router
- Hub
- Switch

39. 31. 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

40. 32. 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

41. 33. The network layer protocol of Internet is

*Mark only one oval.*

- Ethernet
- Internet Protocol
- Hypertext Transfer Protocol
- None

42. 34. What is the subnet 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

43. 35. Which of the following is a dynamic mapping method that finds a physical address, given a logical address?

*Mark only one oval.*

- ARP
- RARP
- BootP
- IP

44. 36. 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

45. 37. When a host knows its physical address but not its IP address, it can use

*Mark only one oval.*

- RARP
- IGMP
- ARP
- ICMP



46. 38. 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

47. 39. Metric of Routing Information Protocol is

*Mark only one oval.*

- Bridging
- Hop count
- Branching
- Split horizon

48. 40. 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

49. 41. What is the default subnet mask for a class C network?

*Mark only one oval.*

- 255.255.255.0
- 127.0.0.1
- 255.0.0.0
- 255.255.0.0

50. 42. What is the first octet range for a class A IP address?

*Mark only one oval.*

- 1-120
- 0-125
- 0-127
- 1-125

51. 43. 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

52. 44. What is the address range of a class B network address in binary?

*Mark only one oval.*

01xxxxxx

10xxxxxx

0xxxxxxx

110xxxxxx

53. 45. Which of the following is a form of DoS attack?

*Mark only one oval.*

Vulnerability attack

Bandwidth flooding

Connection flooding

All of the mentioned

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

*Mark only one oval.*

8

32

64

128

55. 47. 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

56. 48. Process to process communication provided by

*Mark only one oval.*

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

57. 49. Ranges of Well-known ports are

*Mark only one oval.*

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

58. 50. Number of buffer used for flow control in Transport layer is

*Mark only one oval.*

2

4

6

8

59. 51. UDP stands for

*Mark only one oval.*

User Data Protocol

User Datagram Protocol

Unlimited Data Protocol

Unified Data Protocol

60. 52. 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

61. 53. Transport layer aggregates data from different applications into a single stream before passing it to which layer?

*Mark only one oval.*

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

62. 54. Which of the following protocols uses both TCP and UDP?

*Mark only one oval.*

- FTP
- SMTP
- TELNET
- DNS

63. 55. Port number within a data packet indicates

*Mark only one oval.*

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

64. 56. Which of the following protocol is connection oriented?

*Mark only one oval.*

- TCP
- UDP
- IPX
- NetBEUI

65. 57. Two broad categories of congestion control are

*Mark only one oval.*

- Open-loop and Closed-loop
- Active loop and Passive loop
- Open-control and Closed-control
- Active control and Passive control

66. 58. 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

67. 59. Retransmission of packets must not be done when

*Mark only one oval.*

- Packet is lost
- Packet is corrupted
- Packet is needed
- Packet is error-free

68. 60. What is the header size range in TCP segment?

*Mark only one oval.*

- 0 to 40 bytes
- 20 to 60 bytes
- 20 to 80 bytes
- 40 to 160 bytes

69. 61. Selective Repeat window, the sender resends which types of packets?

*Mark only one oval.*

- Which are not lost
- All the packets
- Packets which are lost or corrupted
- Packet from starting



70. 62. 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

71. 63. Which is not an application layer protocol?

*Mark only one oval.*

- HTTP
- SMTP
- TCP
- FTP

72. 64. When an HTTP document must be retrieved from a location other than the local machine, which layer of the OSI model must be accessed first?

*Mark only one oval.*

- Presentation layer
- Application
- Transport layer
- Network layer

73. 65. Which protocol is used between E-Mail servers?

*Mark only one oval.*

- POP3
- SMTP
- FTP
- SNMP

74. 66. 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

75. 67. When displaying a web page, the application layer uses the

*Mark only one oval.*

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

76. 68. 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

77. 69. Which layer 4 protocol is used for a TELNET connection?

*Mark only one oval.*

- IP
- TCP/IP
- TCP
- UDP

78. 70. URL stands for

*Mark only one oval.*

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

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