- 1. What is a computer network?
  - a) A device used to display information on a computer screen
  - b) A collection of interconnected computers and devices that can communicate and share resources
  - c) A type of software used to create documents and presentations
  - d) The physical casing that protects a computer's internal components
- 2. What is internet?
  - a) A network of interconnected local area networks
  - b) A collection of unrelated computers
  - c) Interconnection of wide area networks
  - d) A single network
- 3. Which of the following is an example of Bluetooth?
  - a) wide area network
  - b) virtual private network
  - c) local area network
  - d) personal area network

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- 4. What is the full form of OSI?
  - a) optical service implementation
  - b) open service Internet
  - c) open system interconnection
  - d) operating system interface
- 5. How many layers are there in the ISO OSI reference model?
  - a) 7
  - b) 5
  - c) 4
  - d) 6
- 6. Which of this is not a network edge device?
  - a) Switch
  - b) PC
  - c) Smartphones
  - d) Servers
- 7. Which topology requires a multipoint connection?
  - a) Ring
  - b) Bus

	c) Star d) Mesh
8.	What is the term for the data communication system within a building or campus?  a) MAN  b) LAN  c) PAN  d) WAN
9.	Which network topology requires a central controller or hub?  a) Ring  b) Bus  c) Star  d) Mesh
10	). Checksum is used for
13	a. Error detection b. Error correction c. Error control c. Which among the following network topologies has the highest transmission speed? a. Lan b. Wan c. Man d. Both lan and wan have equal transmission speeds. c. Ipv6 addresses have a size of: a. 64 bits b. 128 bits c. 256 bits d. 512 bits d. 512 bits d. 512 bits d. Which one of the following protocols is used for E-mail services? a. HTTP b. IP c. SMTP d. PPP d. Which of the following device is used to connect similar LAN with same protocols? a. Gateways b. Router c. Switches d. Bridges d. What protocol is used to find the hardware address of a local device? a. RARP b. ARP
	c. IP

- d. ICMP
- 16. What does the set of rules define?
  - a. SMTP
  - b. FTP
  - c. IMAP
  - d. Protocol
- 17. Identify the first network which was based on TCP/IP protocol.
  - a. ARPANET
  - b. HUB
  - c. Ethernet card
  - d. Router
- 18. What does TCP/IP stand for ?
  - a. Telephone control protocol/internet protocol
  - b. Transmission control protocol/internet protocol
  - c. Transmission control protocol/international protocol
  - d. None
- 19. Identify among the following the network device used to connect two dis-similar types of networks.
  - a. Switch
  - b. Hub
  - Bridge
  - d. Gateway
- 20. Identify the device used to boost up a weak signal.
- al Institute of weak signal.
  - Modem
  - Repeater
  - Switch
  - d. Router
- 21. What is the length of the MAC address.
  - a. 8 bits
  - b. 16 bits
  - c. 32 bits
  - d. 48 bits
- 22. Identify the network which extends a private network across a public network.
  - a. Storage area network
  - b. Virtual private network
  - c. Enterprise private network
  - d. Local area network
- 23. Identify the layer which is responsible for data translating.
  - a. Network
  - b. Data link
  - c. Presentation
  - d. Application
- 24. Identify the layer which determines the interface of the system with the user.
  - a. Network

- b. Datalink
- c. Presentation
- d. Application
- 25. Identify the device which links two homogeneous packed broadcast local networks.
  - a. Hub
  - b. Router
  - c. Bridge
  - d. Gateway
- 26. Why are parity bits used?
  - a. To encrypt data
  - b. To detect error
  - c. To identify user
  - d. None
- 27. Identify among the following which belongs to class A.
  - a. 121.12.12.248
  - b. 128.12.12.248
  - c. 129.12.12.248
  - d. 130.12.12.248
- 28. Calculate the maximum efficiency of pure ALOHA at G=0.5? (efficiency= G\*exp(-2G))
  - a. 16%
  - b. 1.89%
  - c. 18.4%
  - d. 18.9999%
- 29. Identify the switching method in which the message is divided into small packets.
  - a. Virtual switching
  - b. Packet switching
  - c. Message switching
  - d. None
- 30. Choose among the following which is a bit-oriented protocol.
  - a. SSL
  - b. HDLC
  - c. HTTP
  - d. All of the above
- 31. Which device convert digital signal to analog signal and vice-versa?
  - a. Repeater
  - b. Modem
  - c. Router
  - d. None
- 32. What is the full form of modem?
  - a. Modulator demodulator
  - b. Modem demodem
  - c. Man Deman
  - d. All of the above
- 33. In an internet that is accessible by outside workers?

- a. Extranet
- b. P2p network
- c. Firewall
- d. Management information system
- 34. Which of the following addresses is 32-bit?
  - a. Mac address
  - b. Source address
  - c. Virtual address
  - d. Destination address
- 35. Which of the following communications modes support two-way traffic but in only one direction of a time?
  - a. Simplex
  - b. Half-duplex
  - c. Full-duplex
  - d. Three-quarters duplex
- 36. The slowest transmission speeds are those of?
  - a. Microwaves
  - b. Coaxial cable
  - c. Fiber optic cable
  - d. Twisted pair wire
- 37. A modem is connected to?
  - a. A telephone line
  - b. A keyboard
  - c. A printer
  - d. A monitor
- 38. Which of the following protocol is used for remote terminal connection service?
  - a. RARP
  - b. UDP
  - c. FTP
  - d. TELNET
- 39. FDDI is
  - a. Bus based network
  - b. Mesh network
  - c. Star network
  - d. Ring network
- 40. Computers connected to a LAN can
  - a. Share information and/or share peripheral equipement
  - b. E-mail
  - c. Go online
  - d. Run faster
- 41. Frame from one lan can be transmitted to another lan via the device
  - a. Router
  - b. Bridge
  - c. Repeater

- d. Modem
- 42. Which of the following condition is used to transmit two packets over a medium at the same time?
  - a. Contention
  - b. Collision
  - c. Synchronous
  - d. asynchronous
- 43. What is the default subnet mask for a class C network?
  - a. 127.0.0.1
  - b. 255.0.0.0
  - c. 255.255.0.0
  - d. 255.255.255.0
- 44. Which of the following TCP/IP protocol allows an application program on one machine to send a datagram to an application program on another machine?
  - a. UDP
  - b. SMTP
  - c. X.25
  - d. VMTP
- 45. What part of 192.168.10.51 is the Network ID, assuming a default subnet mask?

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- a 192
- b. 192.168.10
- c. 0.0.0.5
- d. **5**1