

**1. IPv4 supports \_\_\_\_\_ different types of addressing modes**

- A. two
- B. three**
- C. four
- D. five

**2. Which mode, data is sent only to one destined host?**

- A. Broadcast Addressing Mode
- B. Multicast Addressing Mode
- C. Unicast Addressing Mode**
- D. All of the above

**3. The Destination Address field contains \_\_\_\_\_ IP address of the destination host.**

- A. 8- bit
- B. 16- bit
- C. 24- bit
- D. 32- bit**

**4. In Broadcast Addressing Mode, the Destination Address field contains a special broadcast address, i.e. \_\_\_\_\_.**

- A. 127.255.255.255.
- B. 255.255.255.255.**
- C. 0.0.0.0
- D. 194.255.255.255.

**5. Which mode is a mix of the previous two modes?**

- A. Broadcast Addressing Mode
- B. Unicast Addressing Mode
- C. Multicast Addressing Mode**
- D. All of the above

**6. In Multicast Addressing Mode, the Destination Address contains a special address which starts with ?**

- A. 0.x.x.x
- B. 127.x.x.x
- C. 192.x.x.x
- D. 224.x.x.x**

**7. IPv4 uses hierarchical addressing scheme.**

- A. TRUE**
- B. FALSE
- C. Can be true or false
- D. Can not say

**8. IP address is 32 bit value which is divided into \_\_\_\_\_ octets.**

- A. 2
- B. 4**
- C. 8
- D. 16

**9. Subnet Mask is also 32 bits long.**

- A. Yes**
- B. No
- C. Can be yes or no
- D. Can not say

**10. The first octet referred here is the \_\_\_\_\_ most of all.**

- A. right
- B. middle
- C. left**
- D. None of the above

**11. IPv4 stands for?**

- A. Internet Protocol version 3
- B. Internet Protocol version 4**
- C. Internet Protocol version 5
- D. Internet Protocol version 6

**12. A computing device when connected to other computing device(s) enables us to share data and information at lightning fast speed.**

- A. TRUE**
- B. FALSE
- C. Can be true or false
- D. Can not say

**13. \_\_\_\_\_ are said to be situated at ultimate end of the network**

- A. Media
- B. Hub
- C. Hosts**
- D. Router

**14. Which of the following is not wired ?**

- A. copper cable
- B. fiber optic cable
- C. coaxial cable
- D. free-to-air radio frequency**

**15. Hub works on \_\_\_\_\_ (Physical Layer) of OSI Model.**

- A. Layer-1**
- B. Layer-2
- C. Layer-3
- D. Layer-4

**16. Switch works on \_\_\_\_\_ of OSI Model.**

- A. Layer-1
- B. Layer-2
- C. Layer-3
- D. Both B and C**

**17. MAC address is a factory coded \_\_\_\_\_ hardware address which can also uniquely identify a host.**

- A. 8-bits
- B. 24-bits
- C. 48-bits**
- D. 64-bits

**18. A Switch is a multiport bridge and is used to connect hosts in a LAN segment.**

- A. Yes**
- B. No
- C. Can be yes or no
- D. Can not say

**19. Which of the following is used to protect users data from unintended recipients on the network/internet?**

- A. Router
- B. Gateways
- C. Firewall**
- D. None of the above

**20. All components in a network ultimately serve the hosts.**

- A. TRUE**
- B. FALSE
- C. Can be true or false
- D. Can not say

**21. IPv6 stands for?**

- A. Internet Protocol version 3
- B. Internet Protocol version 4
- C. Internet Protocol version 5
- D. Internet Protocol version 6**

**22. Which of the following features of IPv6?**

- A. Larger Address Space
- B. Simplified Header
- C. End-to-end Connectivity
- D. All of the above**

**23. IPv6 supports both \_\_\_\_\_ auto configuration mode of its host devices.**

- A. stateful
- B. stateless
- C. stateful and stateless**
- D. None of the above

**24. IPv6 header is only twice as bigger than IPv4**

- A. TRUE**
- B. FALSE
- C. Can be true or false
- D. Can not say

**25. IPv6 uses \_\_\_\_\_ times more bits to address a device on the Internet.**

- A. 3
- B. 4**
- C. 5
- D. 6

**26. Which of the following are used to tell the underlying routers how to efficiently process the packet and route it?**

- A. Traffic class
- B. Flow label
- C. Both A and B**
- D. Can not say

**27. The header length of an IPv6 datagram is \_\_\_\_\_**

- A. 10bytes
- B. 25bytes
- C. 30bytes
- D. 40bytes**

**28. In the IPv6 header, the traffic class field is similar to which field in the IPv4 header?**

- A. Fragmentation field
- B. Fast-switching
- C. ToS field**
- D. Option field

**29. Which among the following features is present in IPv6 but not in IPv4?**

- A. Fragmentation
- B. Anycast address**
- C. Header checksum
- D. Options

**30. According to an estimate, 1564 addresses can be allocated to every square meter of this earth.**

- A. Yes**
- B. No
- C. Can be yes or no
- D. Can not say

**31. In OSI model, OSI stands for?**

- A. Open Source Interconnection
- B. Open System Interconnection**
- C. O-System Interconnection
- D. O-Source Interconnection

**32. Which of the following is Layer-7?**

- A. Presentation Layer
- B. Session Layer
- C. Application Layer**
- D. Transport Layer

**33. Which layer helps to understand data representation in one form on a host to other host in their native representation?**

- A. Application Layer
- B. Presentation Layer**
- C. Session Layer
- D. Transport Layer

**34. HTTP is an example of?**

- A. Session Layer
- B. Presentation Layer
- C. Data Link Layer
- D. Application Layer**

**35. Which layer helps to uniquely identify hosts beyond the subnets and defines the path which the packets will follow or be routed to reach the destination?**

- A. Physical Layer
- B. Data Link Layer
- C. Network Layer**
- D. Transport Layer

**36. Physical Layer is Layer-1.**

- A. Yes**
- B. No
- C. Can be yes or no
- D. Can not say

**37. How many layers does OSI Reference Model has?**

- A. 6
- B. 7**
- C. 8
- D. 9

**38. The physical layer concerns with**

- A. bit-by-bit delivery
- B. process to process delivery**
- C. application to application delivery
- D. None of the above

**39. Bits can be send over guided and unguided media as analog signal by**

- A. digital modulation**
- B. amplitude modulation
- C. frequency modulation
- D. phase modulation

**40. The network layer is responsible for carrying data from one host to another.**

- A. TRUE**
- B. FALSE
- C. Can be true or false
- D. Can not say