



**CBCGS SEM IV IT Computer Networks (Sample questions)**

1. The TCP/IP model consists of \_\_\_\_\_ layers.
  - a. 3
  - b. 5
  - c. 7
  - d. 8
  
2. In the OSI model, synchronization and control are functions of the \_\_\_\_\_ layer.
  - a. application
  - b. transport
  - c. session
  - d. presentation
  
3. To deliver a datagram to the correct host on a network, the \_\_\_\_\_ address must be consulted.
  - a. port
  - b. IP
  - c. physical
  - d. MAC
  
4. Communication between a mouse and a monitor involves \_\_\_\_\_ transmission.
  - a. Simplex
  - b. Half-duplex
  - c. Full-duplex
  - d. automatic
  
5. An IPv6 address consists of \_\_\_\_\_ bits
  - a. 16

b. 32

c. 128

d. 64

6. BGP is a \_\_\_\_\_ layer protocol.

a. transport

b. Data link

c. Network

d. Application

7. Inspect the default subnet mask for a Class C address?

(1 marks)

a) 255.0.0.0

b) 255.255.0.0

c) 255.255.255.0

d) 255.255.255.255

8. TCP is a \_\_\_\_\_ layer protocol

a. Network

b. Transport

c. Datalink

d. Application

9. The OSI is a \_\_\_\_\_ reference model developed \_\_\_\_\_ the TCP/IP protocol suite.

a. seven layer; before

b. six layer; before

c. five layer; before

d. five layer; after

10. Which of the following is a guided medium?

a. Air

b. Space

c. coaxial cable

d. atmosphere

11. Which of the following services is not offered by a network layer

- a. Routing
- b. congestion control
- c. error detection and correction
- d. addressing

12. CSMA method was developed to

- a) minimize the chance of error
- b) minimize the chance of congestion
- c) minimize the chance of collision
- d) minimize the chance of latency

13. A virtual-circuit identifier (VCI) identifies a frame between two \_\_\_\_\_

- a) Hubs
- b) switches.
- c) Routers
- d) Repeaters

14. DHCP stands for

- a) Dynamic Host Configuration Protocol
- b) Dynamic Hyper Configuration Protocol
- c) Dynamic Hyperlink Configuration Protocol
- d) Dynamic Hypertext Configuration Protocol

15. Delivery of a packet to a host or router requires

- a) logical and physical addresses:
- b) only logical address
- c) only physical address
- d) Neither logical and nor physical addresses

16. Socket address is a combination of

- a) two IP addresses
- b) two port numbers
- c) IP address and the port number
- d) IP address and MAC address

17. Congestion control refers to the mechanisms to keep the load \_\_\_\_\_

- a) above capacity
- b) below capacity
- c) equal to capacity
- d) nominal

18. SMTP is used in the Internet to provide

- a) electronic mail services
- b) congestion control
- c) Addressing
- d) Error control

19. URL stands for
- a) universal resource locator
  - b) united resource locator
  - c) uniform resource locator
  - d) unique resource locator
20. HTTP stands for
- a) Hypertext Transition Protocol
  - b) Hyperactive Transfer Protocol
  - c) Hyper Transfer Protocol
  - d) Hypertext Transfer Protocol
21. An organization is granted a block of classless addresses with the starting address 190.100.0.0/16. How many addresses are granted?
- a.65537
  - b.65536
  - c.65535
  - d.65534
22. What is the 1st address of a block of classless addresses if one of the addresses is 17.12.14.29/27?
- a. 17.12.14.255
  - b. 17.12.14.256
  - c. 17.12.14.0
  - d. 17.12.14.1
23. A block of addresses is granted to a small organization. We know that one of the addresses is 205.16.37.39/28. What is the first address in the block?
- a) 207.16.37.30
  - b) 205.16.37.32
  - c) 210.16.32.16
  - d) 208.17.16.0
24. \_\_\_\_\_ is the binary notation for IPv4 address 111.56.45.78
- a) 01101111 00111000 00101101 01001110
  - b) 01011010 00101011 00101011 00011010
  - c) 01010110 00110101 10101100 00101001
  - d) 01010111 00111000 00101101 01001110
25. ARP is a \_\_\_\_\_ layer protocol
- a. Network
  - b. Transport
  - c. Datalink
  - d. Application

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