

Unit-I

Unit-1: Computer Networks – Fill in the Blanks & Multiple Choice Questions

Multiple Choice Questions (MCQs)

1. What is the primary goal of computer networking?

- A) Gaming
- B) Resource Sharing
- C) Programming
- D) Storage

Answer: B

2. Which is a business application of networks?

- A) Video Games
- B) Resource Sharing
- C) Music Downloading
- D) Movie Watching

Answer: B

3. Which device is commonly used by mobile users?

- A) Printer
- B) Scanner
- C) Smartphone
- D) Router

Answer: C

4. Cybercrime is categorized under:

- A) Business Issues
- B) Home Applications
- C) Social Issues
- D) Hardware Issues

Answer: C

5. LAN stands for:

- A) Large Area Network
- B) Local Area Network
- C) Logical Area Network

D) Long Area Network

Answer: B

6. Which network covers a city?

A) LAN

B) PAN

C) MAN

D) WAN

Answer: C

7. The Internet is an example of:

A) LAN

B) MAN

C) WAN

D) PAN

Answer: C

8. Wi-Fi belongs to:

A) Wired Networks

B) Wireless Networks

C) Optical Networks

D) Satellite Networks

Answer: B

9. A network inside a house is called:

A) WAN

B) MAN

C) Home Network

D) Campus Network

Answer: C

10. A collection of interconnected networks is called:

A) Subnet

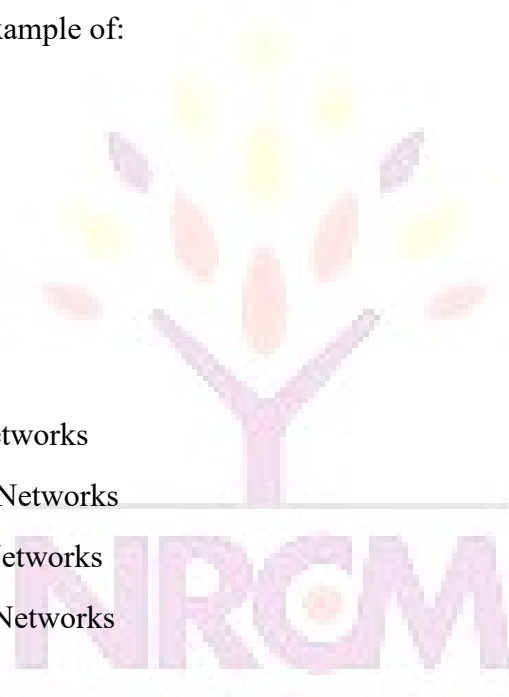
B) Internetwork

C) Ethernet

D) Protocol

Answer: B

11. A protocol is:



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- A) Hardware Device
- B) Communication Rule
- C) Cable
- D) Router

Answer: B

12. Network software is organized into:

- A) Frames
- B) Segments
- C) Layers
- D) Blocks

Answer: C

13. TCP provides:

- A) Connectionless Service
- B) Connection-Oriented Service
- C) Wireless Service
- D) Routing Service

Answer: B

14. UDP provides:

- A) Connection-Oriented Service
- B) Reliable Service
- C) Connectionless Service
- D) Circuit Switching

Answer: C

15. Service primitives are used to:

- A) Define communication between layers
- B) Connect cables
- C) Encrypt data
- D) Design hardware

Answer: A

16. How many layers are present in the OSI model?

- A) 5
- B) 6
- C) 7

D) 8

Answer: C

17. Which model is used on the Internet?

- A) OSI
- B) TCP/IP
- C) ATM
- D) ISDN

Answer: B

18. The topmost layer of OSI is:

- A) Physical
- B) Network
- C) Session
- D) Application

Answer: D

19. Which layer is responsible for routing?

- A) Physical
- B) Data Link
- C) Network
- D) Application

Answer: C

20. OSI stands for:

- A) Open Systems Interconnection
- B) Optical System Integration
- C) Online System Interface
- D) Open Service Internet

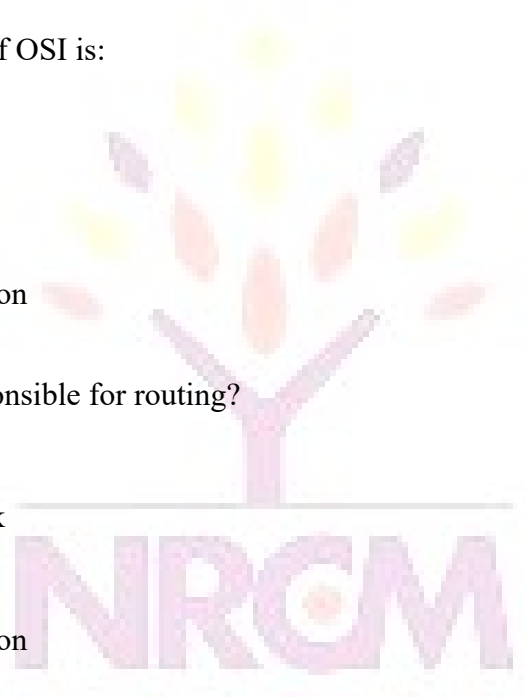
Answer: A

21. Ethernet is mainly used in:

- A) LANs
- B) WANs
- C) MANs
- D) PANs

Answer: A

22. Which protocol suite is used by the Internet?



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- A) Ethernet
 - B) TCP/IP
 - C) Bluetooth
 - D) Wi-Fi
- Answer: B

23. Ethernet uses:

- A) IP Address
 - B) URL
 - C) MAC Address
 - D) Port Number
- Answer: C

24. The Internet is a:

- A) Single Network
 - B) Standalone Computer
 - C) Network of Networks
 - D) Home Network
- Answer: C

25. Ethernet operates primarily at:

- A) Physical and Data Link Layers
 - B) Session and Presentation Layers
 - C) Transport Layer
 - D) Application Layer
- Answer: A

Fill in the Blanks

1. The primary goal of networking is _____ sharing.
Answer: Resource
2. In business organizations, networks are used to share _____ and data.
Answer: resources
3. E-mail is a common _____ application of networks.
Answer: communication
4. Online banking is an example of a _____ application.
Answer: home
5. Smartphones enable _____ users to access networks anywhere.
Answer: mobile

6. Cyberbullying is one of the _____ issues related to networking.
Answer: social
7. Video conferencing allows real-time _____ between users.
Answer: communication
8. Social networking sites connect people through the _____.
Answer: Internet
9. A network covering a small geographical area is called a _____.
Answer: LAN
10. LAN stands for _____ Area Network.
Answer: Local
11. A MAN covers an entire _____.
Answer: city
12. WAN stands for _____ Area Network.
Answer: Wide
13. The Internet is the largest example of a _____.
Answer: WAN
14. Wi-Fi is a type of _____ network.
Answer: wireless
15. A network connecting devices inside a home is called a _____ network.
Answer: home
16. A collection of interconnected networks is known as an _____.
Answer: internetwork
17. A set of rules governing communication is called a _____.
Answer: protocol
18. Network software is organized into multiple _____.
Answer: layers
19. The protocol hierarchy follows a _____ structure.
Answer: layered
20. A service that establishes a connection before communication is called _____ oriented service.
Answer: connection
21. UDP provides a _____ service.
Answer: connectionless
22. TCP provides a _____ oriented service.
Answer: connection
23. Service primitives define the interaction between a service and its _____.
Answer: users

24. Layers communicate using _____.
Answer: protocols
25. OSI stands for _____ Systems Interconnection.
Answer: Open
26. The OSI model consists of _____ layers.
Answer: seven
27. The TCP/IP model was developed for the _____.
Answer: Internet
28. The Transport layer in OSI corresponds to the _____ layer in TCP/IP.
Answer: Transport
29. The top layer of the OSI model is the _____ layer.
Answer: Application
30. The Physical layer is responsible for transmitting _____ bits.
Answer: raw
31. The global network connecting millions of computers is called the _____.
Answer: Internet
32. Ethernet is primarily used in _____ networks.
Answer: LAN
33. Ethernet operates at the _____ and Data Link layers of OSI.
Answer: Physical
34. Internet communication relies on the _____ protocol suite.
Answer: TCP/IP
35. Ethernet uses _____ addresses for communication.
Answer: MAC

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