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Computer Networks MCQs

1. What does PoP stand for?
2. What is the port number of PoP?
3. What is the number of layers in the OSI model?
4. The full form of OSI is?
5. Identify the layer which provides service to the user.
6. What is a HUB?
7. What does a set of rules define?
8. Identify among the following which is mainly used to host web site.
9. Identify the full form of HTTP?
10. Identify the protocol primarily used for browsing data.
11. Identify the total versions of IP.

Correct Answer
Answer - B) IP has 2 versions, IPV4 and IPV6.

12. Identify the first network which was based on TCP/IP protocol.
☒ ARPANET
☐ HUB
☐ Ethernet Card
☐ Router
Hide

Correct Answer
Answer - A) ARPANET was the first network that was based on TCP/IP protocol.

13. Choose among the following, which is the most common Internet protocol.
☐ PPP
☐ FTP
☐ TCP/IP
☐ SMTP
Check Answer

14. What does TCP/IP stand for?

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☒ ARPANET

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☐ Router

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☐ Pre Office Protocol

☒ Post Office Protocol

☐ Protocol of Post

☐ None

Hide

Correct Answer

Answer - B) PoP stands for Post Office Protocol

2. What is the port number of PoP?

☐ 35

☐ 43

☒ 110

☐ 25

Hide

Wrong Answer

Answer - C) The ports number of PoP is 110

3. What is the number of layers in the OSI model?

☐ 2 layers

☐ 4 layers

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Correct Answer

Answer - B) The TCP/IP model does not contain a session layer.

16. What is the collection of the hyperlinked document on the internet known as?

☐ HTML

☐ Email

☐ WWW

☐ Internet

Check Answer

17. What is the location of a resource on the internet given by?

☐ Email

☐ IP

☐ Protocol

☐ URL

Check Answer

18. Identify the incorrect network topology.

☐ Bus

☐ Ring

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☐ HTML

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Hide

Wrong Answer

Answer - The collection of the hyperlinked document on the internet known as WWW.

17. What is the location of a resource on the internet given by?

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18. Identify the incorrect network topology.

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11. Identify the total versions of IP.

Hide

Correct Answer

Answer - D) The location of a resource on the internet is given by URL.

18. Identify the incorrect network topology.

☐ Bus

☐ Star

☐ P2P

☐ Ring

Check Answer

19. Choose the port number of FTP.

☐ 23

☐ 21

☐ 110

☐ 143


Check Answer

20. What is the length of the IPv4 address?

☐ 8 bits

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Correct Answer

Answer - C) P2P is not network topology.

19. Choose the port number of FTP.

☐ 23

☒ 21

☐ 110

☐ 143

Check Answer

20. What is the length of the IPv4 address?

☐ 8 bits

☐ 16 bits

☐ 32 bits

☐ 128 bits

Check Answer

21. What is the length of the IPv6 address?

☐ 8 bits

☐ 16 bits

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fy the first network which based on TCP/IP protocol.

se among the following, is the most common

Check Answer

21. What is the length of the IPv6 address?

- ☐ 8 bits
- ☐ 16 bits
- ☐ 32 bits
- ☒ 128 bits

Hide

Correct Answer

Answer - D) The length of the IPv6 address is 128 bits.

22. What is the term used when the main server sends mail to another mail server?

- ☐ FTP
- ☐ SMTP
- ☐ TCP/IP
- ☐ MIME

Check Answer

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Correct Answer

Answer - D) The length of the IPv6 address is 128 bits.

22. What is the term used when the main server sends mail to another mail server?

☐ FTP

☒ SMTP

☐ TCP/IP

☒ MIME

Hide

Wrong Answer

Answer - B) SMTP is the term used when the main server sends mail to another mail server.

23. What is the port number of SMTP?

☐ 110

☐ 143

☐ 25

☐ 99

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Presenting

Computer networks

Common Ports			
Top 100 TCP & UDP Ports			
Port Number	Service	Protocol	Port Number
20-21	FTP	TCP	1332
22	SSH	TCP	1334
23	Telnet	TCP/UDP	1433-1434
25	SMTP	TCP	1795
44	HTTP	TCP	1795
443	HTTPS	TCP/UDP	1795
53	DNS	TCP/UDP	1795
67-68	DHCP	UDP	1812-1813
69	TFTP	UDP	1812
70	Finger	TCP	2000
80	HTTP	TCP	2002
81	FTP	TCP	2049
82	FTP	TCP	2049
83	FTP	TCP	2049
84	FTP	TCP	2049
85	FTP	TCP	2049
86	FTP	TCP	2049
87	FTP	TCP	2049
88	FTP	TCP	2049
89	FTP	TCP	2049
90	FTP	TCP	2049
91	FTP	TCP	2049
92	FTP	TCP	2049
93	FTP	TCP	2049
94	FTP	TCP	2049
95	FTP	TCP	2049
96	FTP	TCP	2049
97	FTP	TCP	2049
98	FTP	TCP	2049
99	FTP	TCP	2049

TCP		UDP	
FTP	20,21	DNS	53
SSH	22	BooTPS/DHCP	67
Telnet	23	TFTP	69
SMTP	25	NTP	123
DNS	53	SNMP	161
HTTP	80		
POP3	110		
IMAP4	143		
HTTPS	443		

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Ports explained

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Port Number	Protocol	Port Number	Protocol
20, 21	File Transfer Protocol (FTP)	143	Internet Message Access Protocol (IMAP4)
22	Secure Shell (SSH)	443	Secure HTTP (HTTPS)
23	Telnet Protocol	445	Microsoft-DS (Active Directory)
25	Simple Mail Transfer Protocol (SMTP)		
53	Domain Name System (DNS)		
67, 68	Dynamic Host Configuration Protocol (DHCP)		
80	HyperText Transfer Protocol (HTTP)		
110	Post Office Protocol (POP3)		
137	NetBIOS Name Service		
143	Internet Message Access Protocol (IMAP4)		
443	Secure HTTP (HTTPS)		
445	Microsoft-DS (Active Directory)		

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137	NetBIOS Name Service
143	Internet Message Access Protocol (IMAP4)
443	Secure HTTP (HTTPS)
445	Microsoft-DS (Active Directory)

Commonly used port numbers | Download Table Visit

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Port Number	Protocol	Port Number	Protocol
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Check Answer

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fy the first network which based on TCP/IP protocol.

se among the following, is the most common

25. What does port number 143 refer to?

- ☐ SMTP
- ☐ FTP
- ☒ IMAP
- ☐ POP

Hide

Correct Answer

Answer - C) Port number 143 refers to IMAP.

26. Identify among the following the network device used to connect two dis-similar types of networks.

- ☐ Switch
- ☐ Hub
- ☐ Bridge
- ☐ Gateway

Check Answer

27. Identify the device used to boost up a weak signal.

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☒ IMAP
☐ POP
Hide
Correct Answer
Answer - C) Port number 143 refers to IMAP.

26. Identify among the following the network device used to connect two dis-similar types of networks.
☐ Switch
☐ Hub
☐ Bridge
☒ Gateway
Hide
Correct Answer
Answer - D) Gateway is used to connect two dis-similar types of networks.

27. Identify the device used to boost up a weak signal.
☐ Modem
☒ Repeater

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Correct Answer
Answer - C) Port number 143 refers to IMAP.

26. Identify among the following the network device used to connect two dis-similar types of networks.

☐ Switch
☐ Hub
☐ Bridge
☒ Gateway

Hide

Correct Answer
Answer - D) Gateway is used to connect two dis-similar types of networks.

27. Identify the device used to boost up a weak signal.

☐ Modem
☒ Repeater
☐ Switch
☐ Router

Hide

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Correct Answer
Answer - B) Repeater is used to boost up a weak signal.

28. What does MAC stand for?

☒ Media Access Control
☐ Mass Access Control
☐ Media Access Carriage
☐ None

Hide

Correct Answer
Answer - A) MAC stands for Media Access Control.

29. What is the length of the MAC address?

☐ 8 bits
☐ 16 bits
☐ 32 bits
☐ 48 bits

Check Answer

a

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Answer - A) MAC stands for Media Access Control.

29. What is the length of the MAC address?

- ☐ 8 bits
- ☐ 16 bits
- ☐ 32 bits
- ☒ 48 bits

Hide

Correct Answer

Answer - D) Length of MAC address is 48 bits.

30. Which of the following is used to allocate and manage resources for a network?

- ☐ Bluetooth
- ☐ Server
- ☐ Node
- ☐ None of the above

Check Answer

31. The arrangement where all data pass through a central computer is known as

- ☐ Ring topology

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Hide

Correct Answer

Answer - D) Length of MAC address is 48 bits.

30. Which of the following is used to allocate and manage resources for a network?

- ☐ Bluetooth
- ☐ Server
- ☒ Node
- ☐ None of the above

Hide

Wrong Answer

Answer - B) Server is used to allocate and manage resources for a network.

31. The arrangement where all data pass through a central computer is known as

- ☐ Ring topology
- ☐ Mesh topology
- ☐ Star topology
- ☐ Bus topology

Check Answer

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Correct Answer
Answer - C) The arrangement where all data pass through a central computer is known as Star topology.

32. What of the following device is used in the network layer?

- ☐ Application gateway
- ☐ Switch
- ☒ Router
- ☐ Repeaters

Hide

Correct Answer
Answer - C) Router is used in the network layer.

33. Identify if the following statement is True or False: Network Interface Card(NIC) is an I/O device.

- ☐ True
- ☐ False
- ☐ Depends on usage
- ☐ None

Check Answer

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Repeaters

Hide

Correct Answer
Answer - C) Router is used in the network layer.

33. Identify if the following statement is True or False: Network Interface Card(NIC) is an I/O device.

☒ True

☐ False

☐ Depends on usage

☐ None

Hide

Wrong Answer
Answer - A) NIC is an I/O device.

34. What is required to use a Simple Network Management System?

☐ Servers

☐ Protocols

☐ Rules

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☐ None

Hide

Wrong Answer
Answer - A) NIC is an I/O device.

34. What is required to use a Simple Network Management System?

☐ Servers

☐ Protocols

☒ Rules

☐ IP

Hide

Wrong Answer
Answer - C) Rules are required to use a Simple Network Management System.

35. Identify the major difference between SNMPv3 and SNMPv2.

☐ Classification

☐ Integration

☐ Management

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Computer Network

Tutorial

Introduction

Features

Architecture

Components

Computer Network Types

Topologies

Transmission Modes

Models

Models

OSI Model

TCP/IP Model

Physical Layer

Digital Transmission

Transmission Media

Guided Media

UnGuided Media

Multiplexing

Switching

Switching Modes

Switching Techniques

Data Link layer

Data Link layer

Error Detection

Error Correction

Data Link Control

SNMP

- SNMP stands for Simple Network Management Protocol
- SNMP is a framework used for managing devices on the internet.
- It provides a set of operations for monitoring and managing the internet.

SNMP Concept

SNMP has two components Manager and agent.

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Wrong Answer

Answer - C) Rules are required to use a Simple Network Management System.

35. Identify the major difference between SNMPv3 and SNMPv2.

- ☐ Classification
- ☐ Integration
- ☐ Management
- ☒ Enhanced security

Hide

Correct Answer

Answer - D) The major difference between SNMPv3 and SNMPv2 is Enhanced security.

36. Identify the network which extends a private network across a public network.

- ☐ Storage Area network
- ☒ Virtual private network
- ☐ Enterprise Private network
- ☐ Local area network

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12. Identify the first network which was based on TCP/IP protocol.

13. Choose among the following, which is the most common internet protocol.

14. What does TCP/IP stand for?

Hide

Correct Answer

Answer - B) VPN extends a private network across a public network.

37. Identify the layer which is responsible for data translating.

☒ Network

☒ Datalink

☒ Presentation

☐ Application

Hide

Wrong Answer

Answer - C) Presentation layer is used for data translating.

38. Identify the layer which determines the interface of the system with the user.

☐ Network

☐ Datalink

☐ Presentation

☐ Application

Check Answer

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13. Choose among the following, which is the most common internet protocol.

14. What does TCP/IP stand for?

Hide

Wrong Answer

Answer - C) Presentation layer is used for data translating.

38. Identify the layer which determines the interface of the system with the user.

☐ Network

☐ Datalink

☐ Presentation

☒ Application

Hide

Correct Answer

Answer - D) Application layer is used to determine the interface of the system with the user.

39. Which of the following topology arrangements is a point-to-point line configuration?


☐ Ring

☐ Mesh

☐ Star

☐ All of the above

Check Answer



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13. Choose among the following, which is the most common internet protocol.

14. What does TCP/IP stand for?

Wrong Answer

Answer - C) Bridge is used to link two homogeneous packed broadcast local networks.

41. Why are parity bits used?

☐ To encrypt data

☒ To detect error

☐ To identify user

☐ None

Hide

Correct Answer

Answer - B) Parity bits are used to detect the error.

42. Identify among the following which belongs to class A.

☐ 121.12.12.248

☐ 128.12.12.248

☐ 129.12.12.248

☐ 130.12.12.248

Check Answer

43. What does LAN stand for?

☐ Local Array Network

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Question 19. (Team ID: 690413-U6U682KY)

Question 44
Time left Sec

You are building a contact management system. Each contact has a name and a phone number. You need to implement a linked list to store these contacts.

```
#include <iostream>
```

```
struct Contact {  
    std::string name;  
    int phoneNumber;  
    Contact* next;  
};
```

```
int main() {  
    Contact* head = nullptr;
```

```
// Insert code here (line 15)
```

```
return 0;  
}
```

What should be inserted in line 15 to create a new node and add it to the beginning of the linked list?

Answer:



Marks: Up to 2 (1 for correct answer + upto 1 for speed)

☐ Contact* newNode = new Contact;

Submit

Completed

17

Not Answered

13

current

30 Question(s)

1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	18
19	20	21	22	23	24
25	26	27	28	29	30



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Question 23. (Team ID: 690413-U6U682KY)



Question Time left 49 Sec

As an experienced developer, what approach or strategies would you employ to handle the stack reaching its maximum capacity during peak usage?

Answer:



Marks: Up to 2 (1 for correct answer + upto 1 for speed)

- ☐ Increase the maximum capacity of the stack dynamically as the need arises.
- ☐ Implement a second stack and distribute user data between the two stacks.
- ☐ Implement a queue-based approach instead of a stack to manage user session data.
- ☐ Use a database instead of a stack to store and retrieve user session data.
- ☐ Implement a caching mechanism to temporarily store and offload some user session data from the stack.
- ☐ Employ load balancing techniques to distribute user traffic across multiple servers.

Submit

Completed

21

Not Answered

9

current

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30 Question(s)

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