Started on	Wednesday, 26 March 2025, 3:27 PM
State	Finished
Completed on	Wednesday, 26 March 2025, 3:40 PM
Time taken	12 mins 49 secs
Marks	11.00/20.00
Grade	**55.00** out of 100.00

Question 1

Correct

Mark 1.00 out of 1.00

What protocol is commonly used for transmitting web pages over the internet?

- ○ a. SNMP
- ○ b. SMTP
- ○ c. FTP
- ◉ d. HTTP ✔

Question 2

Incorrect

Mark 0.00 out of 1.00

Which command can be used to view the current IP configuration of a device?

- ○ a. netstat
- ◉ b. ipconfig ✖
- ○ c. ifconfig
- ○ d. Both ipconfig and ifconfig

Question 3

Incorrect

Mark 0.00 out of 1.00

Determine output:

```
public class Test{
    public static void main(String[] args){
        int[] x = {1, 2, 3, 4};
        int[] y = x;
        x = new int[2];
        for(int i = 0; i < x.length; i++)
            System.out.print(y[i] + " ");
    }
}
```

○ a.   0 0 ✖

○ b.   1 2 3 4

○ c.   0 0 0 0

○ d.   1 2

Your answer is incorrect.

Question 4

Incorrect

Mark 0.00 out of 1.00

Which layer of the OSI model ensures the error-free transmission of data?

○ a.   Transport Layer ✖

○ b.   Physical Layer

○ c.   Network Layer

○ d.   Data Link Layer

Question 5

Correct

Mark 1.00 out of 1.00

Which device is used to connect different network segments in a computer network?

○ a.   Bridge

○ b.   Repeater

○ c.   Router ✔

○ d.   Modem

Question 6

Correct

Mark 1.00 out of 1.00

In a computer network, what is the main function of the application layer?

○ a.   To transmit data between network devices

○ b.   To package data for transfer

○ c.   To route data between networks

◉ d.   To provide network services to the applications ✔

Question 7

Correct

Mark 1.00 out of 1.00

Which topology does the Internet resemble?

○ a.   Bus

○ b.   Ring

◉ c.   Mesh ✔

○ d.   Star

Question 8

Incorrect

Mark 0.00 out of 1.00

What is the result of executing the ping localhost command?

○ a.   It displays the routing table

○ b.   It clears the DNS cache

◉ c.   It configures the local machine's IP address ✖

○ d.   It sends ICMP echo requests to the local machine

Question 9

Correct

Mark 1.00 out of 1.00

In "UPDATE Employees SET Age = Age + 1 WHERE Department IN ('Sales', 'HR') AND Age >= 30;",identify the error.

○ a.   The AND operator

◉ b.   No error ✔

○ c.   The SET keyword

○ d.   The IN operator

Question 10

Correct

Mark 1.00 out of 1.00

In the query "SELECT Name FROM Employees WHERE Age > 30 AND Department = 'HR';",what needs to be corrected?

- a.   The SELECT keyword
- b.   The WHERE clause
- c.   The AND operator
- d.   All Correct ✔

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Question 11

Correct

Mark 1.00 out of 1.00

What is missing in the following statement? "INSERT INTO Employees (Name, Department) VALUES ('John', 'Sales');"

- a.   Additional column names
- b.   Employee ID
- c.   A WHERE clause
- d.   All Correct ✔

Question 12

Incorrect

Mark 0.00 out of 1.00

If a computer is unable to access the Internet, but can communicate with local network devices, what should be checked first?

- a.   Router configuration
- b.   Local firewall settings ✖
- c.   DNS settings
- d.   Cable connections

Question 13

Incorrect

Mark 0.00 out of 1.00   .

The process of encapsulation involves data moving from which layer to which layer?

- a.   Transport to Network
- b.   Network to Transport ✖
- c.   Application to Physical
- d.   Physical to Application

Question 14

Correct

Mark 1.00 out of 1.00

Identify the error in "UPDATE Employees SET Salary = Salary * 1.05 WHERE;"

- ○ a.   SET keyword
- ○ b.   No error
- ◉ c.   WHERE clause ✔
- ○ d.   UPDATE keyword

Question 15

Correct

Mark 1.00 out of 1.00

Which layer of the OSI model is responsible for establishing, managing, and terminating sessions between applications?

- ◉ a.   Session Layer ✔
- ○ b.   Transport Layer
- ○ c.   Presentation Layer
- ○ d.   Application Layer

Question 16

Correct

Mark 1.00 out of 1.00

What is the primary function of the Network Layer in the OSI model?

- ◉ a.   To provide data routing paths for network communication ✔
- ○ b.   To establish connections
- ○ c.   To format data
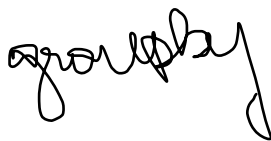- ○ d.   To encode and decode data

Question 17

Incorrect

Mark 0.00 out of 1.00

Correct the syntax error in "DELETE FROM Employees HAVING Age < 25;"

- ○ a.   DELETE keyword
- ○ b.   HAVING keyword
- ◉ c.   No syntax error ✘
- ○ d.   FROM keyword

Question 18

Incorrect

Mark 0.00 out of 1.00

In the TCP/IP model, which layer corresponds to the OSI model's Physical and Data Link layers?

○ a.   Transport

○ b.   Internet

○ c.   Network Interface

◉ d.   Application ✘

Question 19

Incorrect

Mark 0.00 out of 1.00

A computer can ping IP addresses but not domain names.What is likely the issue?

○ a.   DNS misconfiguration

○ b.   Faulty Ethernet cable

○ c.   Router failure

◉ d.   IP conflict ✘

Question 20

Correct

Mark 1.00 out of 1.00

What is the fundamental purpose of a computer network?

◉ a.   Sharing resources ✔

○ b.   Performing calculations

○ c.   Enhancing security

○ d.   Storing data