

Differentiate between <P> and
.

How is HTML different from XML.

What is the difference between for and while loop.

Write HTML code to set background image and change color of a document .

Write Java code to accept loan amount and time from the user .Calculate rate of Interest based on the following criteria :

If loan >=10,000 rate is 2.2%

loan <10,000 rate is 2.4%

Also calculate the interest and display it in the textbox t4.

Define :

- 1) Relation
- 2) Candidate key
- 3) Transaction

Name MYSQL command to :

1) display the structure of table

2) change the width of a column

What are column constraints ? Explain any two with example.

Answer according to instructions:

Which network topology requires terminators at the ends of the lines?

Expand the term : GNU, PHP

How is coaxial cable different from optical fibre?

What is the difference between IP address and MAC address ?

What is snooping and phishing?

What are the common threats to Network Security?

Which elements are needed to control a Loop?

A list namely myList has SelectionMode property set to SINGLE-INTERVAL. How would you obtain the indices of selected value? (ii) the selected value?

a. Find the output:

```
1. int f=1,i=2;
```

```
do
```

```
{
```

```
    f*=i;
```

```
} while(++l <5);
```

```
System.out.println(f);
```

Can you assign justified alignment to a paragraph in HTML

What is XML? Write its advantages.

What are the steps involved in JDBC connection?

Rewrite the code using While Loop?

Answer the following questions.

A School would like to go in for network of all the computers. Which topology would you recommend and why?

What is communication channel? What choices do you have while choosing a communication channel for a network?

What do you mean by network topology? Name most popular topologies

Navneet is using software, which has been downloaded from internet and is available for one month. After one month he has to pay license fee for further use. What software Navneet is using?

Akhil is transferring songs from his mobile to his friend's mobile via Bluetooth connection. Name the network used by Akhil.

Which of the following is not a characteristic of open source software?

- Its source code is available for modification
- Its owned by a company or an individual
- It can be downloaded by Internet

Which protocol is used for transfer of hyper text documents on the internet?

Answer the following questions.

Ms. Kiran has developed a Java application for a restaurant billing, in which check boxes and text fields are made on form. Items are shown through check boxes. Selecting check box displaying corresponding text fields. Name the property which Kiran should use to perform the same.

What is the purpose of break and continue statement in a loop?

Name the tag which is used to insert image in background of HTML document with example.

What is XML? How is it different from HTML?

What will be the value of s after executing the following code?

```

double i,sum=2

for(i=3;i<8;++i)
{
    if(i%4==0)
    {
        break;

        sum=Math.pow(sum,i);
    }
}

else

sum+=i/2;

}

```

Write a method in Java that takes a number as parameter and return sum of its divisors.

What are the use of the following tags-

, <HEAD>, <SUP>, <P>

Two doctors in the same room have connected their palm tops using Bluetooth for working on a group presentation. Out of the following, what kind of networks they have formed? **LAN,MAN,PAN,WAN.**

Arrange the following communication channels in ascending order of their data transmission rates. **ETHERNET CABLE,OPTICAL FIBER,TELEPHONE CABLE,COAXIAL CABLE.**

Which transmission medium should be used to transfer data across two continents at very high speed?

Which of the following software's are open source:
LINUX,MS WINDOWS 7,PHOTOSHOP,MYSQL

Explain the difference between domain name and URL with the help of appropriate example of each.

- (f) Name any two Indian scripts included in Unicode.
- (g) Differentiate star and bus topology of networks.

(a) while working in netbeans ,ranjeeta included a listbox in the form.now she want the list of her friend's names to be displayed in it .which property of listbox control should she use to do this?

1 (b)What is the purpose of

default clause in a switch statements ?

(c) What is the purpose of break statements in a loop?

(d)Write the two properties of jTextField?

(e)What will be the value of x and y after execution of the following code:

```

int x,y=0;
for(x=1;x<=5;x++)
y=x++;

```

- -y;
- (f) Write a function in java that takes principal,rate and time as parameters and returns simple interest.
- (g) Write a function in java that takes two numbers as parameters and returns their sum.

What is Default constructor?
How an inheritance does support software reuse?
What is function overloading?
What are the various visibility mode in java
What is method overriding?

Difference between Abstract class and Interface
What are the different types of constructor in java explain with example?
What is super class and sub class
How can you make the connection?
Write the steps of retrieving data from the Result set
Write a code to remove first and last row of a table namely **atbl**

Write the output of the following code

```
String st="Sharda";  
  
for(int i=0;i<st.length();i++)  
{  
    System.out.println((st.substring(st.length()-i)).toUpperCase());  
}
```

Write a java code to display the system date and the date before 763 days from system date today's date.

Write a code in java which take 10 numbers through input box and store it in a combo box and display the greater one.

Write a code in java to generate single calculator using classes and accepting the two integers and operator with all methods to input, display, add, subtract, product and division.

Write a java code to get the output as shown below if the user input the String 'D'.

- A
- B A
- C B A
- D C B A

Write a java code to find area of a rectangle and triangle by using class hierarchy. 2

Write a java method which take a float argument and return integer without using type casting and round method.

Write the output of the following java code.

```
String st="Comp9UtEr Scie7 nce";  
char ch;
```

```

int i;
for(i=0;i<st.length();i++)
{
    ch=st.charAt(i);
    if(Character.isUpperCase(ch))
        System.out.print(Character.toLowerCase(ch));
    else
        if(Character.isWhitespace(ch))
            System.out.print("#");
        else
            if(Character.isDigit(ch))
                System.out.print(" ");
            else
                System.out.print(Character.toUpperCase(ch));
}

```

Explain function of Modem and Switch.

- (b) What is an IP address ? Give two characteristics.
- (c.) What is networking? Name any three types of networking.
- (d.) Why network security is an important aspect over data security?
- (e.) What is the difference between Bridge and Router?
- (f.) What is protocol ? name of any two protocol.
- (a) What is front-end ? Name any two GUI which are used as front-end.
- (b.) What is MAC address ?

What is Topology? Name Four Topologies Explain

What do you mean by lifetime of variable? How is a local variable different from other variable

2

(b) What is syntax error in the context of a program? Give an example.

2

(c) What are containers or container controls?

2

(d) What is a list ? How is it different from combobox?

2

- (e) Differentiate between Call by Value and Call by Reference. 2
1. (a) Name the protocol used for sending and receiving e-mails. 1
 (b) Define the following 1
- i. Baud ii. Bps
- (c) Expand them – 1
- i. NFS ii. MODEM
- (d) Differentiate between MAC address and IP address. 2
- (e) Which of the following are open source LINUX , MS Window Vista , Python , MySQL , PageMaker. 1
- (f) Write down two merits and two demerits of the following topologies 2
- i. STAR ii. Tree
- (g) List down merits of open standards.

- (a) What are the differences between hardware, software and firmware?
- (b) What is the difference between an interpreter and a compiler?
- (c) What do you understand by a message and an event?
- (d) Write all Operator Names in Java with short description?
- (e) What is meant by implicit and explicit type conversion?
- (f) What is Selection Statement? Describe each statement with syntax?
- (g) What are iteration statements? Name the iteration statements provided by java?
- (h) Write Name the component classes of Swing API for the following components-
- (i) frame (ii) button
- (i) What is the difference between a text field and a password field when both obtain text from user ?
- (j) What is Focus? When do FOCUS_GAINED AND FOCUS_LOST occur?
- (k) What is a list ? How is it different from combo box?
- (l) What is return statement describe with example ?
- (m) Which keyword retains duplicate output rows in a query result?

(n) What is Alter Statement? Describe with example?

Q.1 Differentiate between <P> and
. 2

Q2. How is HTML different from XML. 2

Q.3 What is the difference between for and while loop. 2

Q.4 Write HTML code to set background image and change color of a document . 2

Q.5 Write Java code to accept loan amount and time from the user .Calculate rate of Interest based on the following criteria :

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Q.6 . Define :

1) Relation 2) Candidate key 3) Transaction 3

Q.7 Name MYSQL command to :

1) display the structure of table 2

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Q.8 What are column constraints ? Explain any two with example. 3

Q1. (a)Write the two advantage and two disadvantages of the following topologies in network (i) Bus Topologies (ii) Star Topologies (2)

(b)Explain in brief of networking needs and goals. (2)

(c)Name two encodings used for Indian Language computing? (2)

(d)Define the following terms: (2)

(i)Hub (ii) Switch

(e) What is free software ?How is it different from Open source Software? (2)

Q2. (a)What is the name of event listener interface for action events? (1)

(b)What does getPassword() on a password field return ? (1)

(i) a string (ii) an integer (iii) a character array

(c) What is inheritance ? Name its various forms. (2)

(d) What is a markup language?explain with an example (2)

(e) What is MySql Client ? (2)

(f) What is a Class and its constructor? (2)

a) What is the difference between Star Topology and Bus Topology of network? 2

b) What is the full form of the following 2

iii) FTP ii) FSF iii) GNU iv) FLOSS

c) What do you understand by Domain resolution? 2

- d) Why network security is an important aspect over data security 2
- e) Explain the following terms: 2
 - i) Linux
 - ii) OSS
- 2) (a) What is e-Learning? 1
- (b) What is database connectivity? 1
- (b) You want to develop an interface for entering your Roll_no, Name, Age and Sex (male or female). Suggest suitable front-end interface tools in NetBeans IDE. 2
- (c) Differentiate between front-end and back-end.

a) What type of network would you suggest for the following type of requirements in an organization?

i) Around 200 computers in two different buildings adjacent to one another are to be connected.

ii) The cost of network should not be very high.

iii) It should be fairly easy to implement.

b) Mr. Vasu is transferring data to a large distance via cable connection and he wants to amplify the signal transmitting over a network. What device will be useful for him?

c) What do you mean by network topology? Write one advantage and one disadvantage of star topology.

d) What is freeware? How is it different from free software?

e) Which of the following technologies require line-of site between the transmitter and receiver?

- a) Satellite
- b) Fiber Optic
- c) Microwave
- d) Co-axial Cable

f) What is openoffice.org?

g) Which protocol is used for transfer files over the internet?

Answer the following questions.

a) Mr. Nayak has developed a Java application for a school, in which, a combo box is made on the form for selecting class. Name the property which Mr. Nayak should use to add the class's data in combo box.

b) Name the statements used for decision making in Java.

c) Differentiate between and tags with example..

d) What is XML-document system?

e) What will be the output of the following code?

```
StringBuffer city=new StringBuffer("Delhi");
```



```
StringBuffer string=new StringBuffer();  
  
string.append(new String(city));  
  
string.insert(0,"Central");  
  
System.out.println(string);
```

f) Write a method in Java that takes a number as parameter and returns True if the number is prime otherwise returns False.

g) What are the use of the following tags-

<TITLE>, <A>,
, <U>

a) Which MySQL command helps you to create database if it does not exist?

b) How can we see the list of existing tables?

c) Rajan created a table named **Item**, he wants to see those Items whose price is between 200 and 800. He wrote a query-

```
SELECT * FROM Item WHOSE price>200 OR <800;
```

Help Rajan to run the query by removing the errors from the query by rewriting it.

d) Sanket wants to implement referential integrity in the tables being created. Which constraint should be used by Sanket while doing so?

f) What is the role of primary key in the table? Explain with the help of suitable example.

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