



INFOTECH Computer Education

First floor, Opposite Bank of Baroda, Ajmer Road, Kishangarh (Raj)

Phone : 01463-249505, Cell : 9829171122, 9252060795

E-mail : infotechcomputer@gmail.com Website : www.infotechcomputer.in

- 1 (a) India Marchants Co is planning in the office building to connect all computers, each spread over within distance of 45 Meters. Suggest the economical cable type having high speed data transfer which can be used to connect these computers. 1
- (b) ABC Co is planning to connect their two different networks using different protocol and having different size in terms of computer. Which device will you suggest them to installed for connection. 1
- I. Router
 - II. Bridge
 - III. Gateway
- (c) Mrs Sangita purchased a NIC card. There is some number printed in the form of 10 : B6 : 08 : 76 : 3E : AB. What does this number represents to? Explain the two parts? 1
- (d) Write any two significance of Unicode? 1
- (e) Which of the following is not a Open Source/Free Software: 1
- (i) Mozilla
 - (ii) PostgreSQL
 - (iii) Tomcat
 - (iv) Microsoft Office 2007
- (f) Define Proprietary Software? 1
- (g) Identify the type of Topology from the following: 2
- (i) if one node fails to pass data through itself, the entire networks fails and no traffic can flow.
 - (ii) nodes are connected together in an arbitrary fashion. A link may or may not Connect two or more nodes.
- (i) Define the following with reference to attacks to Network Security: 2
- a. Snooping
 - b. Eavesdropping.
- 2 (a) While writing the code Mrs Ghosh wants to execute any statement even if condition is false at least once. Help her to choose appropriate loop out of do.....while 1

(condition) and while()....

- (b) Which method of text area is used to add specified text to the end of the Text area? Give an Example. 1
- (c) Which tag in HTML are used to insert a Horizontal Line and to insert a line break? 1
- (d) How <Title> tag is Different from <Head> tag ? 1
- (e) What will be the value of P and Q after executing of the following code? 2

```
int P,Q,R;
for(P=1;P<=4;++P) {
for(R=1,Q=P;R<=P;R++,Q+=2)
{
}
JOptionPane.showMessageDialog(this,"P: "+P+" Q:"+Q+"");
```

- (f) Write any four features of XML? 2
- (g) Write Java code for calculate Button that takes the Deposit amount of a customer from jTextField1 and type of account of a customer from jRadioButton1 and jRadioButton2. jRadioButton1 and jRadioButton2 represents Fixed and Saving account. Calculate an interest depending on the choice of user if jRadioButton1 is selected then interest rate is 12% and if jRadioButton2 is selected then interest rate is 6%. Display the maturity amount in jTextField3 which represent total amount. 2

- 3 (a) Write MySql command that will be used to show all the databases which is already created in MySql. 1

- (b) The Department column and date of joining of a table Employee is given below: 2

Department	Date_of_Joining
Biology	2009-07-19
Zoology	2007-02-13
Bio_Tech	2010-05-15
Psycology	2011-09-06

- (i)Based on the above table write SQL Query to display the name of those department Whose name ends with logy.
- (ii)Based on the above table write SQL Query to display the name of those department Whose name starts with Bi.
- (c) What is the degree and cardinality of the above given Employee table? 2

- (d) Differentiate between Primary key and Unique Key? 1
- (e) Define Class and Object with reference to Object Oriented Programming. Also write syntax to declare and initialize an object. Why they are used? 2
- (f) In the above given table Employee Mr Roy wants to display the date of joining of those employees whose date of joining is less than 15-05-2010. He has written the following Select statement which is not giving correct result.
Select * from Employee where Doj<15-05-2010;
 Help Mr Roy to run the query by removing the errors. Write the correct query. 2
- 4 (a) Identify the problem with the following code: 2

```
String pass = p1.getPassword( );
if(pass.equals("Suman")
{
}
```
- (b) Write the sample code to accept month number in a JTextField1 and display Month Name in JTextField2 using Switch statement. 2
- (c) What is an use of Default Table Model in java? 1
- (d) Which methods are used to register a Driver and create a Connection object? 2
- (e) What will be an output of the following code snippet: 1

```
int z, x = 3, y = 5;
z = --x + y++;
System.out.println(z);
```
- (f) Find and underline the errors in the code given below: 2

```
int a = Double.parseDouble(t1.getText());
System.out.print(a);
```

 Here t1 is the name given to TextField control. t1 contains the value 399.456.
- (g) Mr. Jignesh Desai an owner of Alpha Chemicals PVT ltd has asked his programmer Sweta to develop the following GUI application in Netbeans:

Enter Item Code Quantity, Price and Select Class of city

Item Code

Quantity

Price per Unit

Class of City i ii iii

Sales Price

Service Charges

Net Price

Service Charges Rates are as follows

Class of City	Rate of Service Charges
i	10% of sales price
ii	15% of sales price
iii	20% of sales price

Write java code for the following:

- (a1) To calculate service charges depending on the selection of radio button 3
 This code will execute after click on the calculate service charges?
 Make calculate net price button un-editable.
- (b1) To calculate net price when Calculate Net price button will be clicked. 2
 Make calculate Service Charges button un-editable.
- (c1) When exit button will be clicked application should be automatically closed. 1

- 5 (a) What is an use of Modify and Truncate command? 1
- (b) Write the name of different TCL commands of MySQL? 2
- (c) Consider the table Library given below. Write commands in MySQL for (i) to (iv) and output for(v) to (vii).

Table : Library

Sr_No	Book_Name	Publishers	Author	Year_of_Publication	Price
1	Basic for beginners	BPB	Raman Prakash	1995-05-19	150
2	Mastering Informatics	McGraw	Mrs Lilli	2010-07-11	270

	Practices				
3	Advance Pascal	Galgotia	Sandip Verma	2005-02-21	380
4	Learn Ms-Office	Student Publication	Reeta Aahuja	2009-09-23	470
5	Network Guide	BPB	Vinay Sainy	2008-08-25	225
6	Mastering C++	Bharti Bhawan	Mrs Lilli	2011-11-18	210
7	Genes and Evolution	McGraw	Dr A P Jha	1995-12-30	450
8	IT Laws	Galgotia	Surendra Sexsena	2008-10-05	600
9	Auditing	Mcgraw	S K Paul	2012-01-07	105
10	Play with IP	Student Publication	Dhruv Adhikari	1999-08-03	110

- (i) To list the Authors whose publishers is Student Publication and price is greater than 350. 1
- (ii) To list the Sr_No, Price, Author in descending order of Price. 1
- (iii) To list the Book_Name which are published before year 2000. 2
- (iv) Display the name of authors whose name ends with "lli". 1
- (v) Select Distinct Count(Publishers) from library; 1
- (vi) Select Sum(Price) from Library Group by Publishers; 1
- (vii) Select * from Library where Publishers in("Student Publication","Galgotia"); 1
- 6 Write Sql Commands for the following:
- (a) Display the Student Name, Age from table Student and Member_Id from Library table with their matching Roll_No. Both the table here contains Roll_No. 2
- (b) To add a column Parents in Student table to store Alpha Numeric Characters. 2
- (c) (i) Write Sql Commands to Create the table Members with following specification: 2

Field Name	Data Type	Size	Constraints
Member_Id	Varchar	5	Primary Key
Membership_fees	Integer		Less than 500
Expiry_Date	Date		

- (ii) Write a command to insert any one record in the table Members created above. 1
- 7 (a) Write any two positive impacts of E-governance? 2
- (b) What is E-Business? Give URL of two of the commonly used E-Business portals 2
- (c) Rajesh is developing his project on Customer Management for CBSE Examination. 2
- Help him to select proper controls from the list i.e Combo Box, Radio Button, Text Area
Command button and text Field for the following purpose:
- (i) To show description of Item.
- (ii) To display item Name.
- (iii) To input price.
- (iv) To accept card type i.e Debit Card, Credit Card Visa Card,.
- (v) To submit detail.