KENDRIYA VIDYALAYA SANGATHAN

SESSION ENDING EXAMINATION

INFORMATICS PRACTICES (065)

Class - XI

Time Allowed: 3hrs  Maximum Marks: 70

Instructions:

(i) All questions are compulsory.
(ii) Programming language: Java, SQL

1. (a) Write the full form of MICR and CRT. 1

(b) Define DBMS. 1

(c) What is Firewall? 1

(d) Differentiate between Serial and Parallel ports of the computer system. 1

(e) Differentiate between Interpreter and Compiler. 2

(f) What are Denial-of-Services and Sweeper Attacks? 2

(g) Differentiate between System Software and Application Software. 2

2. (a) Sumit is developing one application in which he wants to get full address of the customer. He is confused that which control he will use for this purpose. Suggest him best suitable control for this purpose. 1

(b) Write the name of the method which is used to display the text in any TextField. 1

(c) Which method is used to find out the selected item from the List Box at run time in program. 1

(d) Suraj wants to make one Text Field un-editable at run time. Tell him the coding for this purpose. 1

(e) What is the difference between the = and = = operators. Describe it with suitable example. 2

(f) What are logical operators? Describe any one with suitable example. 2

(g) What is the difference between if and if else statements? Describe it with suitable example. 2
3. (a) What is meant by Relation in RDBMS?  
(b) Write MySQL command to change the data type of Sname column in Student table from char(20) to varchar(30).  
(c) What is the use of WHERE clause in UPDATE command? What will happen in-case WHERE clause is not used in UPDATE command?  
(d) Write MySQL command to display the structure of Medicine table.  
(e) Write MySQL command to display the list of available tables in a database.  
(f) What is a candidate key?  
(g) Which two wild characters are used in LIKE clause? Explain using example.

4. (a) Which type of values we can use with the switch statement?  
(b) Write the name of the method which is used to convert the string value in to the integer value.  
(c) Rajesh wants to display "*" when he will write the password in jPasswordField. Tell him the name of the property which he will use for this purpose.  
(d) What will the value of jTextField1 and jTextField2 after executing the following statement?  
```java
int j=10,k=1,m=0;
for(j=0;j<5;j++){
    for(k=0;k<5;k++){m++;}
    jTextField1.setText(m++ " ");
}
jTextField2.setText(j++ " ");
```
(e) Rewrite the following code using for loop:  
```java
int i = 1 ;
while( i < 5 )
{
    System.out.println( "i = " + i ) ;
i++ ;
}
```
(f) Following code has some error(s). Rewrite the correct code underlining all the corrections made:  
```java
int a = jTextField1.getText( ) ;
int b = 20 ;
```
a = a + b;
b = -5;
} while ( b >= 0 )

jTextField1.setText("+a");

(g) The following GUI form is created in Netbeans to calculate the total wages of worker. Number of days and over time hours are entered by user, wages and total amount should be calculated by program.

(i) Write the coding to calculate and display the wages when user click on Calculate Wages button based on the following table:

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Male</td>
<td>500 Rs per Day</td>
</tr>
<tr>
<td>Female</td>
<td>550 Rs per Day</td>
</tr>
</tbody>
</table>

(ii) Write the coding to calculate and display the over time amount, total amount when user click on the Total Amount button. Total amount is sum of wages amount and over time amount. Over time amount should be calculated by using following table:

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Male</td>
<td>100 Rs per Hour</td>
</tr>
<tr>
<td>Female</td>
<td>125 Rs per Hour</td>
</tr>
</tbody>
</table>

(iii) Write the coding to close the application when user click on the Exit button.

5. (a) Write any two differences between DDL & DML commands.

(b) Write the output of the following SQL queries:

(i) SELECT ROUND( 23.7589 , 2 ) ;
(ii) SELECT MID ( ‘Rajesh’, 3,2 ) ;
(iii) SELECT LENGTH( RIGHT(‘INDIA’,4) ) ;
(iv) SELECT CONCAT(SUBSTRING('KVSANGATHAN',3,3),'JANA') ;

(c) Write the SQL commands for the (i) to (iv) and write the output of the (v) & (vi) on the basis of table TEACHER given below:

### TABLE: TEACHER

<table>
<thead>
<tr>
<th>No</th>
<th>Name</th>
<th>Age</th>
<th>Department</th>
<th>Doj</th>
<th>Salary</th>
<th>Sex</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Sunil</td>
<td>34</td>
<td>Computer</td>
<td>1997/01/10</td>
<td>12000</td>
<td>M</td>
</tr>
<tr>
<td>2</td>
<td>Sharmila</td>
<td>31</td>
<td>History</td>
<td>1998/03/24</td>
<td>20000</td>
<td>F</td>
</tr>
<tr>
<td>3</td>
<td>Sandeep</td>
<td>32</td>
<td>Maths</td>
<td>1996/12/12</td>
<td>30000</td>
<td>M</td>
</tr>
<tr>
<td>4</td>
<td>Rita</td>
<td>35</td>
<td>History</td>
<td>1999/07/01</td>
<td>40000</td>
<td>F</td>
</tr>
<tr>
<td>5</td>
<td>Gurmit</td>
<td>42</td>
<td>Maths</td>
<td>1997/09/05</td>
<td>25000</td>
<td>M</td>
</tr>
<tr>
<td>6</td>
<td>Nilesh</td>
<td>50</td>
<td>History</td>
<td>1998/06/27</td>
<td>30000</td>
<td>M</td>
</tr>
<tr>
<td>7</td>
<td>Kirti</td>
<td>44</td>
<td>Computer</td>
<td>1997/02/25</td>
<td>21000</td>
<td>M</td>
</tr>
<tr>
<td>8</td>
<td>Shalakha</td>
<td>33</td>
<td>Maths</td>
<td>1997/07/31</td>
<td>20000</td>
<td>F</td>
</tr>
</tbody>
</table>

(i) To show all information about the teacher of History and Maths department.
(ii) To display the name of female teachers in upper case with their salary.
(iii) To display name, age and department of all teachers in descending order of doj.
(iv) To display detail of teachers who are not in History department.
(v) Select name from TEACHER where name like '%a%';
(vi) Select name, salary from TEACHER where sex='F' and doj>'1998-03-24';

6. (a) Create table Supplier as per following Table Instance Chart.

<table>
<thead>
<tr>
<th>Column Name</th>
<th>SID</th>
<th>SName</th>
<th>SAddr</th>
<th>SCity</th>
<th>SPhone</th>
</tr>
</thead>
<tbody>
<tr>
<td>DataColumn</td>
<td>Integer</td>
<td>Varchar</td>
<td>Varchar</td>
<td>Varchar</td>
<td>Varchar</td>
</tr>
<tr>
<td>Length</td>
<td>30</td>
<td>30</td>
<td>30</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>Constraint</td>
<td>Primary key</td>
<td>Not Null</td>
<td>Unique</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(b) Write MySQL commands based on the table “Student” given below:

Table: Student

<table>
<thead>
<tr>
<th>Sid</th>
<th>Sname</th>
<th>Age</th>
<th>StrId</th>
<th>Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Sawan</td>
<td>10</td>
<td>1</td>
<td>11</td>
</tr>
<tr>
<td>2</td>
<td>Deepa</td>
<td>12</td>
<td>1</td>
<td>10</td>
</tr>
<tr>
<td>3</td>
<td>Radha</td>
<td>14</td>
<td>2</td>
<td>9</td>
</tr>
<tr>
<td>4</td>
<td>Mohan</td>
<td>11</td>
<td>3</td>
<td>11</td>
</tr>
<tr>
<td>5</td>
<td>Shiva</td>
<td>10</td>
<td>2</td>
<td>10</td>
</tr>
</tbody>
</table>
(i) To delete all the records from student table.
(ii) To increase the class column value of all students by 1.

(c) Consider the following table Product. Write MySQL commands for the statement (i) to (vi).

**TABLE : PRODUCT**

<table>
<thead>
<tr>
<th>pid</th>
<th>Pname</th>
<th>Suppname</th>
<th>Expiry</th>
<th>Qty</th>
<th>Price</th>
<th>Discount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Horlicks500gm</td>
<td>Durga Traders</td>
<td>2012-02-01</td>
<td>120</td>
<td>155</td>
<td>2</td>
</tr>
<tr>
<td>2</td>
<td>Pickle250gm</td>
<td>Rajshree</td>
<td>2013-08-12</td>
<td>12</td>
<td>145</td>
<td>5</td>
</tr>
<tr>
<td>3</td>
<td>Milk Pwd 500gm</td>
<td>Ratans</td>
<td>2012-07-12</td>
<td>14</td>
<td>250</td>
<td>10</td>
</tr>
<tr>
<td>4</td>
<td>Biscuits</td>
<td>Durga Traders</td>
<td>2013-10-10</td>
<td>200</td>
<td>5</td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td>Chocolate</td>
<td>Rajshree</td>
<td>NULL</td>
<td>240</td>
<td>10</td>
<td>NULL</td>
</tr>
</tbody>
</table>

(i) To display the details of products expiring before 1st dec 2012.
(ii) To display the product name and total price of all products where total price is calculated as (qty*price).
(iii) To display the products where discount is not given.
(iv) To display products having price between 100 to 200.
(v) To remove the Discount column from the table.
(vi) To add a new column Company (varchar(20)) in the table.

7.  
(a) Name any two e-Business websites of India.  
(b) How has e-governance benefited to the common man? Explain in brief.  
(c) Explain e-Learning. What is the most outstanding feature of e-Learning?

**MARKING SCHEME**

1.  
(a) Write the full form of MICR and CRT.  
   Ans: MICR: Magnetic Ink Character Recognition, CRT: Cathode Ray Tube  
   (½ mark for each correct answer)  
(b) Define DBMS?  
   Ans: DBMS, is a computer software program that is designed as the means of managing all databases that are currently installed on a system hard drive or network. Different types of database management systems exist, with some of them designed for the oversight and proper control of databases that are
configured for specific purposes.

(1 mark for correct answer ½ mark for partially correct answer)

(c) What is Firewall?

Ans: A system designed to prevent unauthorized access to or from a private network is called Firewall. Firewall is a mechanism to prevent unauthorized Internet users from accessing private networks connected to the Internet.

(1 mark for correct definition, ½ mark for partially correct answer)

(d) Difference between Serial and Parallel ports of the computer system.

<table>
<thead>
<tr>
<th>Serial</th>
<th>Parallel</th>
</tr>
</thead>
<tbody>
<tr>
<td>The serial port transfer data serially a bit at a time.</td>
<td>Parallel ports can send or receive a byte at a time.</td>
</tr>
<tr>
<td>Eg. Mouse, Modem</td>
<td>Eg. Printer, Scanner</td>
</tr>
</tbody>
</table>

(½ mark for each correct difference)

(e) Differentiate between Interpreter and Compiler.

Ans:

<table>
<thead>
<tr>
<th>Compiler</th>
<th>Interpreter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Executes the whole program in one go</td>
<td>Executer the program line by line.</td>
</tr>
<tr>
<td>It execute the program only when the whole program is error free</td>
<td>It executes the program even if there is an error at later in program.</td>
</tr>
<tr>
<td>Compiler does not remains in the memory all the time.</td>
<td>Remains in the memory until whole program is not completed.</td>
</tr>
<tr>
<td>e.g. C++</td>
<td>e.g. Visual Basic</td>
</tr>
</tbody>
</table>

(½ marks for each correct difference)

(f) What are Denial-of-Services and Sweeper Attacks?

Ans: Denial-of-service: A denial of service (DoS) attack is an incident in which a user or organization is deprived of the services of a resource they would normally expect to have.

Sweeper attacks: It sweeps deletes all the data from the system.

(1 mark for each correct answer)

(g) Differentiate between System software and Application Software.

Ans: System software is computer software that is designed to operate the computer hardware and to give and maintain a platform for running the application software. System software helps in using the various computer systems, such as diagnostic tools, compilers, servers, utilities, language translator, data communication programs, data management programs, etc. (1 mark)

Application software is computer software, which is designed to help the user to perform single or multiple related tasks. There are different types of application software, which include, Enterprise Resource Planning Software, accounting software, Customer Relationship Management Software, graphics software, media players, etc. (1 mark)

(½ mark for each partially correct answer)
2. (a) Sumit is developing one application in which he wants to get full address of the customer. He is confused that which control he will use for this purpose. Suggest him best suitable control for this purpose.

Ans :
jTextArea
1 marks for correct answer

(b) Write the name of the method which is used to display the text in any TextField.

Ans :
setText()
1 marks for correct answer

(c) Which method is used to find out the selected item from the List Box at run time in program.

Ans :
getSelectValue()
1 marks for correct answer

(d) Suraj wants to make one TextField un editable at run time. Tell him the coding for this purpose.

Ans :
jTextField1.Editable(false);
1 marks for correct answer

(e) What is the difference between the = and == operator. Describe it with suitable example.

1 marks for difference
1 marks for suitable example.

(f) What are logical operators? Describe any one with suitable example.

1 marks for logical operators.
1 marks for suitable example.

(g) What is the difference between if and if else statement? Describe it with suitable example.

1 marks for difference
1 marks for suitable example.

3. (a) A table is called as a Relation in RDBMS, which is collection of rows/tuples.

(b) ALTER TABLE STUDENT
MODIFY SNAME VARCHAR(30) ;

(c) What is the use of WHERE clause in UPDATE command? What will happen in case WHERE clause is not used in UPDATE command?
Ans: WHERE clause is used to apply the condition on rows to select the specific rows for updation. (1 mark)
If WHERE clause is not used it will update all the rows in the table. (1 mark)

(d) Write MySQL command to display the structure of Medicine table.

Ans: DESC MEDICINE;
OR
SHOW CREATE TABLE MEDICINE;

(e) Write MySQL command to display the list of available tables in a database.

Ans: SHOW TABLES;

(f) What is a candidate key?

Ans: A candidate key is an attribute/set of attributes which can be made as a Primary Key.

(g) Which two wild characters are used in LIKE clause. Explain using example.

Ans: The wild characters used in LIKE clause are "%" and "_". 
% specifies any number of characters & _ specifies only one character can come in the pattern string.
e.g: name LIKE "A%" will select all names starting with A and after A there can be any number of characters.
Name LIKE "_A%" will select all names where second character is A.
(1 mark for explanation and 1 mark for example)

4. (a) Which type of values we can use with the switch statement?

Ans: int and char type
1 marks for correct answer.

(b) Write the name of the method which is used to convert string value in to integer value.

Ans: parseInt()
1 marks for correct answer.

(c) Rajesh wants to display "*" when he will write the password in jPasswordField. Tell him the name of the property which he will use for this purpose.

Ans: echoChar
1 marks for correct answer.

(d) What will the value of jTextField1 and jTextField2 after executing the following

```java
// Example code
```
statement:
int j=10,k=1,m=0;
for(j=0;j<5;j++){
    for(k=0;k<5;k++,m++){
        jTextField1.setText(m+" ");
    }
    jTextField2.setText(j+" ");
    ans :
    24
    5
    1 marks for each correct output.

(e) Rewrite the following code using for loop:
    int i = 1 ;
    while( i < 5 )
    {
        System.out.println( "i = " + i ) ;
        i++ ;
    }
    Ans :
    int i ;
    for(i=1;i<5;i++)
    {
        System.out.println( "i = " + i ) ;
        i++ ;
    }

(f) Following code has some error(s). Rewrite the correct code underlining all the corrections made:
    int a = jTextField1.getText( ) ;
    int b = 20 ;
    {
        a = a + b ;
        b = -5 ;
    } while ( b >= 0 )
    jTextField1.setText( "+a ");
    answer :
    int a = Integer.parseInt(jTextField1.getText( ) );
    int b = 20 ;
    do{
        a = a + b ;
        b = -5 ;
    } while ( b >= 0 ) ;
    jTextField1.setText( "+a ");
    ½ marks for each error

(g) The following GUI form is created in Netbeans to calculate the total wages of worker. Number of days and over time hours are entered by user, wages and total amount should be calculated by program.
(i) Write the coding to calculate and display the wages when user click on Calculate Wages button based on the following table:

|        | Male   | 500 Rs per Day |Female  | 550 Rs per Day |

Answer:
```java
private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    int wages=0,noofdays;
    noofdays = Integer.parseInt(jTextField1.getText());
    if (jRadioButton1.isSelected()){
        wages = noofdays*500;
    }
    else if(jRadioButton2.isSelected())
    {
        wages = noofdays*550;
    }
    jTextField2.setText(Integer.toString(wages));
}
```

(ii) Write the coding to calculate and display the total amount when user click on the Total Amount button. Total amount is sum of wages amount and over time amount.
Over time amount should be calculated by using following table:

|        | Male   | 100 Rs per Hour |Female  | 125 Rs per Hour |

```java
private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    int overTime = 0;
    if (jRadioButton3.isSelected()){
        overTime = Integer.parseInt(jTextField3.getText());
        int wages = Integer.parseInt(jTextField2.getText());
        overTimeAmount = overTime*100;
        jTextField4.setText(Integer.toString(overTimeAmount));
        totalAmount = wages + overTimeAmount;
    }
    else if(jRadioButton4.isSelected())
    {
        overTime = Integer.parseInt(jTextField3.getText());
        int wages = Integer.parseInt(jTextField2.getText());
        overTimeAmount = overTime*125;
        jTextField4.setText(Integer.toString(overTimeAmount));
        totalAmount = wages + overTimeAmount;
    }
    jTextField5.setText(Integer.toString(totalAmount));
}
```
private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    int noofhours,overtimeamt=0,totalamt;
    noofhours = Integer.parseInt(jTextField3.getText());
    if (jRadioButton1.isSelected()){
        overtimeamt = noofhours*100;
    } else if(jRadioButton2.isSelected())
    {
        overtimeamt = noofhours*125;
    }
    totalamt = overtimeamt + Integer.parseInt(jTextField2.getText());
    jTextField4.setText(Integer.toString(overtimeamt));
    jTextField5.setText(Integer.toString(totalamt));
}

(iii) Write the coding to close the application when user click on the Exit button.
Answer :
private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {
    System.exit(0);
}

1 marks for correct answer

5. (a) Write any two difference between DDL & DML commands.
Ans: Data Definition Language commands are for defining the objects of
database like tables. e.g. create table, alter table, drop table etc.
DDL commands are auto commit commands which can not be rollback.
Data Manipulation Language commands are related to the manipulation of data
(insert, update, delete). e.g. select, insert, update, delete commands.
DML commands can be roll back i.e we can cancel the changes done through
DML commands.
(1 mark for each appropriate difference)

(b) Write the output of the following SQL queries:
(i) SELECT ROUND( 23.7589 , 2 );
    ANS: 23.76
(ii) SELECT MID ( ‘Rajesh’ , 3,2 );
    ANS: je
(iii) SELECT LENGTH( RIGHT(‘INDIA’,4) );
    ANS: 4
(iv) SELECT CONCAT(SUBSTRING( ‘KVSANGATHAN’ , 3 , 3 ), ‘JANA’);
    ANS: SANJANA

(c) Write the SQL commands for the (i) to (iv) and write the output of the (v) & (vi) on
the basis of table TEACHER given below:
TABLE:TEACHER
(i) To show all information about the teacher of History and Maths department.
ANS: SELECT * FROM TEACHER WHERE DEPARTMENT IN ('History', 'Maths');

(ii) To display the name of female teachers in upper case with their salary.
ANS: SELECT UPPER(NAME), SALARY FROM TEACHER WHERE SEX='F';

(iii) To display name, age and department of all teachers in descending order of doj.
Ans: SELECT NAME, AGE, DEPARTMENT FROM TEACHER ORDER BY DOJ DESC;

(iv) To display detail of teachers who are not in History department.
AND: SELECT * FROM TEACHER WHERE DEPARTMENT <> 'HISTORY';

(v) Select name from teachers where name like '%a%';
ANS: Sharmila
Sandeep
Rita
Shalakha

(vi) Select name, salary from Teacher where sex='F' and doj>'1998-03-24';
Ans: Rita 40000
Nilesh 30000

1 marks for correct answer of each question
6. (a) Create table Supplier as per following Table Instance Chart.

<table>
<thead>
<tr>
<th>Column Name</th>
<th>SID</th>
<th>SName</th>
<th>SAddr</th>
<th>SCity</th>
<th>SPhone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Data Type</td>
<td>Integer</td>
<td>Varchar</td>
<td>Varchar</td>
<td>Varchar</td>
<td>VARCHAR</td>
</tr>
<tr>
<td>Length</td>
<td>30</td>
<td>30</td>
<td>30</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>Constraint</td>
<td>Primary key</td>
<td>Not Null</td>
<td></td>
<td>Unique</td>
<td></td>
</tr>
</tbody>
</table>

ANS: CREATE TABLE SUPPLIER ( SID INT PRIMARY KEY , SNAME VARCHAR(30) NOT NULL , SADDR VARCHAR(30) , SCITY VARCHAR(30) , SPHONE VARCHAR(20) UNIQUE ) ;

(b) Write MySQL commands based on the table “Student” given below:

<table>
<thead>
<tr>
<th>Sid</th>
<th>Sname</th>
<th>Age</th>
<th>StrId</th>
<th>Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Sawan</td>
<td>10</td>
<td>1</td>
<td>11</td>
</tr>
<tr>
<td>2</td>
<td>Deepa</td>
<td>12</td>
<td>1</td>
<td>10</td>
</tr>
<tr>
<td>3</td>
<td>Radha</td>
<td>14</td>
<td>2</td>
<td>9</td>
</tr>
<tr>
<td>4</td>
<td>Mohan</td>
<td>11</td>
<td>3</td>
<td>11</td>
</tr>
<tr>
<td>5</td>
<td>Shiva</td>
<td>10</td>
<td>2</td>
<td>10</td>
</tr>
</tbody>
</table>

(i) To delete all the records from student table.
Ans: DELETE FROM STUDENT ;

(ii) To increase the class column value of all students by 1.
Ans: UPDATE STUDENT SET CLASS = CLASS + 1 ;

(c) Consider the following table Product. Write MySQL commands for the statement (i) to (vi).

TABLE : PRODUCT

<table>
<thead>
<tr>
<th>pld</th>
<th>Pname</th>
<th>Suppname</th>
<th>Expiry</th>
<th>Qty</th>
<th>Price</th>
<th>Discount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Horlicks500g</td>
<td>Durga Traders</td>
<td>2012-02-01</td>
<td>120</td>
<td>155</td>
<td>2</td>
</tr>
<tr>
<td>2</td>
<td>Pickle250gm</td>
<td>Rajshree</td>
<td>2013-08-12</td>
<td>12</td>
<td>145</td>
<td>5</td>
</tr>
<tr>
<td>3</td>
<td>Milk Pwd 500gm</td>
<td>Ratans</td>
<td>2012-07-12</td>
<td>14</td>
<td>250</td>
<td>10</td>
</tr>
<tr>
<td>4</td>
<td>Biscuits</td>
<td>Durga Traders</td>
<td>2013-10-10</td>
<td>200</td>
<td>5</td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td>Chocolate</td>
<td>Rajshree</td>
<td>NULL</td>
<td>240</td>
<td>10</td>
<td>NULL</td>
</tr>
</tbody>
</table>

(i) To display the details of products expiring before 1st dec 2012.
ANS: SELECT * FROM PRODUCT WHERE EXPIRY < ‘2012-12-01’ ;

(ii) To display the product name and total price of all products where total price is calculated as (qty*price).
AND: SELECT PNAME, QTY*PRICE AS “TOTAL PRICE” FROM PRODUCT;

(iii) To display the products where discount is not given.
ANS: SELECT * FROM PRODUCT WHERE DISCOUNT IS NULL ;
(iv) To display products having price between 100 to 200.
ANS: SELECT * FROM PRODUCT WHERE PRICE BETWEEN 100 AND 200;
(v) To remove the Discount column from the table.
ANS: ALTER TABLE PRODUCT DROP DISCOUNT;
(vi) To add a new column Company (varchar(20)) in the table.
ANS: ALTER TABLE PRODUCT ADD COMPANY VARCHAR(20);

1 marks for correct answer of each question

7. (a) Name any two e-Business websites of India.
Ans: irctc.co.in, yatra.com, licindia.com, amazon.com etc.
(½ mark for each correct answer(any two) OR any other correct answer)
(b) How has e-governance benefited to the common man? Explain in brief.
Ans: The E-governance have helped common man in the following ways:
• The number of trips to government offices reduced.
• Waiting time reduced
• Bribes reduced
• All the factor are reduced so the cost of the availing the service is reduced.
(½ marks for each correct answer)
(c) Explain e-Learning. What is the most outstanding feature of e-Learning?
Ans: This is a flexible term used to describe a means of teaching through technology such as a network, browser, CDROM or DVD multimedia platform. The most outstanding feature of e-learning is that it has opened door for skill enhancement to the people of all age groups.
(1 mark for definition and 1 mark for feature of e-learning)