

**Sample Paper 2015**  
**Subject-Informatics Practices**  
**Class XII**

**Time- 3hrs**

**Max Marks- 70**

- i) Read the Questions carefully**
- ii) Mention Question number and its options properly**
- iii) Answer all the questions:-**

Q1(a) Write short notes on the following : 2

(i) LAN (ii) MAN (iii) WAN (iv) PAN

(b) Write the name of software/Hardware used to prevent unauthorized access of Local Area Network? 1

(c) What are the main features of networking? 1

(d) (i) Name the two Indian scripts included in Unicode? 2

(ii) Define the following:

(a) Router (b) Repeater

(e) The process of preventing legitimate users of the system from accessing or using the resources, information, or capabilities of the system is known as what? 1

(f) (a) Expand the term (i) FLOSS (ii) SDLC

(b) What are the following software used for (a) PHP (b) Tomcat2

(g) Define the following with reference to threats to network security? 1

(i) Worm

(ii) Trojan Horse

Q2 (a) What will be an output of the following code if value of a is 1

(i) 2 (ii) 4 (iii) none

switch(a)

```
{
    case 0 : System.out.println(" C");
    case 1 : System.out.println(" C++");
    case 2 : System.out.println(" VB");
    case 3 : System.out.println(" Java"); break;
    case 4 : System.out.println(" PHP");
    default : System.out.println(" ASP"); break;
}
```

(b) Find the output of the following program: 1

```
int c = 0, i = 2;
```

```
while(i<10) {
```

```
    c = ++ i - i*2;
```

```
}
```

```
    System.out.println("c = " + c + "i = " + i);
```

(c) What are these methods used for ? 2

(i) isEditable() (ii) setEditable() (iii) setEchoChar() (iv) getSelected Index()

(d) Find out Errors if any :

1

```
m = 1;
```

```
n = 0;
```

```
for( ; m+n <10 ; ++n)
```

```
system.out.print(" Hello \n");
```

```
m = m +10;
```

(e) What is the difference between if construct and while loop?

1

(f) Write the name of HTML tag used to include

1

(a) Bulleted list

(b) Numbered list in a HTML Web page.

(g) XML is case sensitive. Write true/false?

1

(h) What is the difference between executeQuery() and executeUpdate() Methods?

1

(i) (a) Differentiate between bgcolor and background attribute of body tag?

2

(b) What is an use of the following tags <HR> <br> and <TR>

3. (a) Which function in MySQL is used to show current date and time?

1

(b) Mrs Smita created the following table Doctor and forgets to declare primary key on docid. Help her to do the same by writing proper command?

1

DocId	DocName	DateofJoinning

(c) How Alternate key in a table is different from Candidate key?

1

(d) Write the command using function to display the digits after decimal place up to 2 digits only.

1

4325.7869

(e) What is the difference between having and where clause?

1

(f) Write query to join two tables empl and dept on the basis of field deptno?

1

(g) Write SQL statement to drop a column regno from table candidate which is primary key?

1

(h) What is the difference between Alter and update command in MySQL?

1

(i) Write the command in MySQL for the following:

(a) To display name of students from student table whose name ends with "an"?

2

(b) To display the detail of students from student table whose total\_marks is less than 450 and grater than 250. Total marks is the column in Student table.

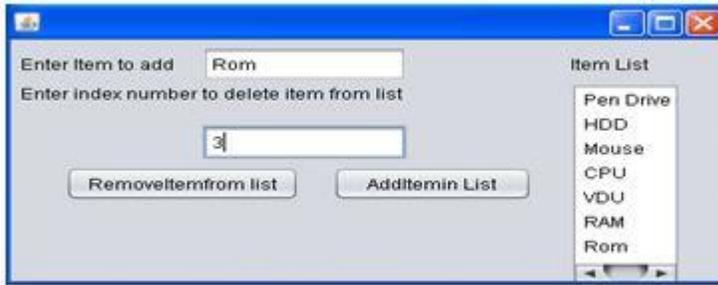
4.

ITEMNO	ITEMNAME	SCODE	QTY	RATE(in hundred)	MFG_DATE
1003	PENDRIVE	12	40	4	2012-07-09
1006	CPU	32	70	50	2011-08-10
1005	RAM	13	80	12	2010-09-19
1009	MOUSE	22	70	1	2013-01-10
1008	KEYBOARD	33	30	2	2013-01-20
1004	PRINTER	44	32	45	2013-01-06
1007	HARD DISK	15	20	35	2012-04-07

(a) (i) What is Meta language? Write the name any one Meta language? 2

(ii) In XML tags are system defined . Write true/false?

(b) Write code for Add and Remove button to add and remove items in the list during run time? 2



(c) How many times does the following while loop get executed ? 1

```
int x = 3;
while(x<10)
{
x += 2 ;
System.out.println(""+x);
}
```

(d) Write sample code to display a message box containing message "WELCOME TO DCS" ? 1

(e) Given below is the form. Write sample code for "Calculate discount" button and Calculate net amount button as per the following scheme to calculate discount and net amount: 3

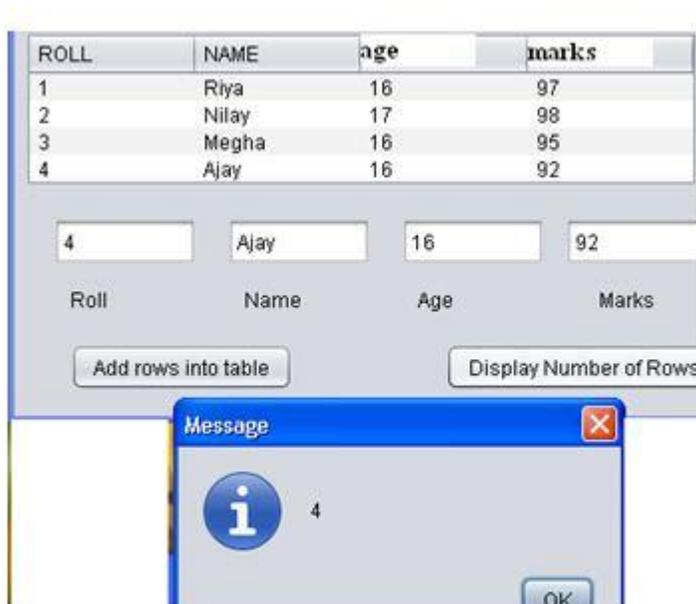


Type of Card	Offer
Gold	15%
Platinum	25%
Silver	10%

Calculate additional discount 5% of Sales amount if sales amount is more than 30000.

5. (a) Write java code that take any number from user in jTextField1 and display its factorial in jTextField2?  
Calculate factorial using while loop? 2

- (b) Write the sample code for two buttons given in the form to add rows and display number of rows in the table in the dialog box like given below? Use suitable control names. 3



- (c) (i) What do you mean by Degree and Cardinality of a table created in MySQL? 2

(ii) What do you mean by implicit and explicit transaction?

- (d) Depending upon the table STORE given below write sql queries for the following: 4

- (i) To display details of all items in store table in increasing order of MFG\_Date.
- (ii) To display ItemNo and ItemName of those items from store table whose rate is less than 35.
- (iii) To display sum of qty and maximum of rate from Store table of an ITEM.
- (iv) To display ItemNo and ItemName of those items from store table whose qty is greater than 20 and rate is greater than 10.

- Q6. (a) What is the difference between round and truncate function in mysql? 1

(b) What will be an output of the following sql commands? 2

- (i) `Select mid("Divine Child School",3,length("Rama"));`
- (ii) `Select Mod(14*9,90/3);`

(c) Consider the tables Item and Customer given below:

### Items

Item_Id	Item_Name	Price
PC01	Personal Computer	25000
LC05	Laptop	45000
PC03	Personal Computer	22000
PC06	Personal Computer	18000

## CUSTOMER

C_Id	CName	City	I_Id
101	B.Patel	Rajkot	LC03
106	R.Chaudhary	Mehsana	PC03
112	A.Shah	Ahmedabad	PC06
115	S.Gupta	Jamnagar	LC03

With reference to these tables, write commands in SQL for(i) and (ii) and output for (iii) given below:

(i) Display the CName, City from Customer and Itemname and Price from table Item, with their corresponding matching I\_Id. 1

(ii) Display the CName, itemname from the table customer and item having price more than 15000. 1

(iii) Select CName, ItemName from Item, Customer 2

Where Item.I\_Id=Customer.I\_Id;

(d) Write SQL statement to create the table Student given below as per specification. 4

Column Name	Roll	Name	Marks	City
Data type	Varchar	Varchar	Number	Varchar
Size	6	30		30
Constraint	Primary key			Default Delhi
Insert at least one record				

(e) (i) Write SQL statement to add a column School\_Name of data type Varchar(20) in the above table. 1

(ii) Write SQL statement to change name of the column City to State. 1

(iii) Write SQL statement to delete all the rows of the table.

Q7. (a) Write any two advantages of the following: 3

e-Governance, e-Learning and e-Business? 1

(b) What components are used for creating Front-end for the following: 2

a.	To select any one option from multiple options.
b.	An input to choose more than one subjects from a set of given choice
c.	To enter description of an item
d.	To enter encrypted text