

**Sample Paper – 2015**  
**Class – XII- Comm**  
**Subject – INFORMATICS PRACTICES**

**Time Allowed: 3 hours**

**Maximum Marks: 70**

**Note:**

- (i) Answer the questions after carefully reading the text.
- (ii) Give Design wherever required.

Q1

a) Rewrite the code using While Loop? 2

```
int j,i=5;
for (j=1;j<=i;j++)
{
    System.out.println( “+j”);
}
```

b) What will be the contents of jTextArea1 after executing the following code: 1

```
jTextArea1.setText(“Kendriya\n Vidyalaya\t Guna”);
```

c) Rewrite the code using switch statement: 2

```
If(k==1)
    Day=“Monday”;
elseif(k==2)
    Day=“ Tuesday”;
elseif(k==3)
    Day=“ Wednesday”;
else
    Day=“-”;
```

d) Rewrite the following program code using a for loop: 2

```
Int i=1,sum=0;
While(i<10)
{
    sum+=i;
    i+=2;
}
```

e) The following has some error(s). Rewrite the correct code underlining all the corrections made: 2

```
Int i, j=5;
i==j+5;
if(i=j)
```

```

{
jtextfield1.setText("I and j are unequal");

jtextfield1.setText("I and j are not equal");breaks;
}
else

jtextfield1.setText("I and j are equal")

```

- Q2 a) Define inheritance with reference to object oriented programming. 1
- b) While working in net beans, Ranjeeta included a list box in the form. Now she wants the list of her friend's names to be displayed in it .Which property of list box control should she use to do this? 1

c)What is the purpose of default clause in a switch statements ? 1

- d) Write the two properties of jtextfield? 1
- e)What is a list ? How is it different from combo box? 1

- Q3 a. What is significance of Group By Clause in used in SELECT query ? 2
- b. What do you understand by Transaction COMMIT & ROLLBACK? 2
- c. What is constraint? Explain the difference between default and check constraints. 2
- d.You need to remove all the rows from the Sales\_LIST table. You want to release the storage spaces but do not want to remove the table structure. What is the solution to the problem? 1
- e. Predict the output: 3

- i. Select round(29.21,1), round(32.76,1);
- ii. Select power(2,5);
- iii. SELECT DAYOFMONTH('2009-08-24');
- iv. Select concat('catch a ',concat( 'falling', 'star'));
- v. SELECT MID('STUDENTS',2,3);

Q 4 a) Create table *Depart* including constraints: 2

- b) Add one more column Email of datatype Varchar and size 30 to the table *Depart*

Column Name	Dept ID	DeptName	DepartLOC	Distance
Key Type	Primary			
Constraint		NOTNULL		
Datatype	Number	Varchar	Varchar	Number
Length	2	20	20	4

- c) Insert values in the table as S101, 'Sales', "delhi", 120. 1

Q5. (a) If database "Employee" exists, which MySQL command helps you to start working in that database?

1

(c) Remove the errors from query and rewrite it.

Select \* from book where Price=NULL;

(d) Which command is used in MySQL to make the changes in database permanent?

1

(e) The itemno and cost column of a table "ITEM" are given below.

2

itemno	Cost
101	5000
102	NULL
103	4000
104	6000
105	NULL

Find the output of the following queries:

i) SELECT AVG(cost) FROM ITEMS;

ii) SELECT cost+100 FROM ITEM WHERE itemno>102;

(g) A table "Animals" in a database has 3 columns and 10 records. What is the degree and cardinality of this table? What will happen if we add 2 more rows?

2

(h) Differentiate DDL and DML commands with examples of each.

2

(i) What are multirow functions?

1

Q 6 The Pincode column of table 'Post' is given below-

2

Pincode
110001
120012
300048
281001

i. SELECT Pincode from Post where Pincode LIKE = "%1" ;

ii. SELECT Pincode from Post where Pincode LIKE = "0 %" ;

Q 7 Write SQL commands for the queries given from a to d and from e to h write the output of the SQL commands based on a table LIBRARY shown below:

a) To display the title of all books with Price between 100 and 300.

1

b) To display Title and Author of all the books having type Prog and published by BPB.

1

c) To display the list of all the books with price more than 130 in ascending order of Qty.

1

d) To display the list of all books whose quantity is less than 4.

1

e) Select MIN(Price) from Library;

0.5

f) Select Sum(Price \* Qty) from Library where Qty > 3;

0.5

- g) g) Select Avg(Price) from Library where Qty < 4;  
 h) h) Select Count(Distinct Publisher) from Library;

0.5  
 0.5

**Table: LIBRARY**

No.	Title	Author	Subject	Publisher	Quantity	Price
1	Data Structure	Lipschute	DS	McGraw	4	217.00
2	DOS Guide	NORTRON	OS	PHI	3	175.00
3	Turbo C++	Robert Lafore	Prog	Galgotia	5	270.00
4	Dbase Dummies	Palmer	DBMS	PustakM	7	130.00
5	Mastering Windows	Cowart	OS	BPB	1	225.00
6	Computer Studies	French	FND	Galgotia	2	75.00
7	COBOL	Stern	Prog	John W	4	1000.00
8	Guide Network	Freed	NET	Zpress	3	200.00
9	Basic for Beginners	Norton	Prog	BPB	3	40.00
10	Advanced Pascal	Schildt	Prog	McGraw	4	350.00

Q8 Virus software Hut has developed the following Interface as shown below.

Payment Mode	Discount
Cost	15 %
Credit Card	N/L
Cheque	10 %

- i. Write the code to make the TextFields for Discount & Net Amount in editable. 1
- ii. Write code to “Calculate Discount“ button as per given criteria and discount and net amount should be displayed in TextField. 3
- iii. Write code for “Stop“ button to close the interface. 1

- Q9(a) What do you understand by primary key and candidate key. 2 (b)
- What is front-end? 1
- (c) Give societal impacts of e-business. 2
- (d) What are the benefits of E-Learning? 1
- (e) Anu works for a Hotel. Sky wants to create controls on a form for the following function. Choose appropriate controls from TextField, Label , RadioButton , CheckBox , List , ComboBox ,Button and write in the third column. 2

S.No.	Controls use to	Control
1	Select room type	
2	Enter customers name	
3	Enter arrival date	
4	To book rook	

- Q10 a) Develop an Application in javanetbeans for calculating Amount (3)



- b) Develop an Application in javanetbeans (3)



- (c) Consider the following tables **ACTIVITY** and **COACH**. Write SQL commands for the statements (i) to (iv) and give outputs for SQL queries (v) to (viii)

**Table: ACTIVITY**

**Table: COACH**

<b>ACode</b>	<b>ActivityName</b>	<b>ParticipantsNum</b>	<b>PrizeMoney</b>	<b>ScheduleDate</b>
1001	Relay 100x4	16	10000	23-Jan-2004
1002	High jump	10	12000	12-Dec-2003
1003	Shot Put	12	8000	14-Feb-2004
1005	Long Jump	12	9000	01-Jan-2004
1008	Discuss Throw	10	15000	19-Mar-2004

- (i) To display the name of all activities with their ACodes in descending order.
- (ii) To display sum of PrizeMoney for each of the Number of participants groupings (as shown in column ParticipantsNum 10,12,16)
- (iii) To display the coach's name and ACodes in ascending order of ACode from the table COACH
- (iv) To display the content of the GAMES table whose ScheduleDate earlier than 01/01/2004 in ascending order of ParticipantNum.
- (v) SELECT COUNT(DISTINCT ParticipantsNum) FROM ACTIVITY;
- (vi) SELECT MAX(ScheduleDate), MIN(ScheduleDate) FROM ACTIVITY;
- (vii) SELECT SUM(PrizeMoney) FROM ACTIVITY;
- (viii) SELECT DISTINCT ParticipantNum FROM COACH;

<b>PCode</b>	<b>Name</b>	<b>ACode</b>
1	Ahmad Hussain	1001
2	Ravinder	1008
3	Janila	1001
4	Naaz	1003