**Total Pages:7** 

# Sample Paper 2014-15

### Class: XII

## **Subject: INFORMATICS PRACTICES**

#### Time Allowed: 3 hours Maximum Marks: 70

### **Instructions:**

- 1. All questions are compulsory.
- 2. Answer the questions after reading the text carefully.

Q1 Mr. Aman Verma wants to prevent unauthorized access to/from his (a) 1 company's local area network. Write the name of a system (System / Hardware), which he should install to do the same. (b) Which device is used to connect dissimilar networks? 1 Name the term which is used while online textual talk in real time. (c) 1 (d) Name the term for malicious programmers, who break into secure systems. 1 (e) Differentiate between Star topology and Bus Topology with one advantage 2 and one disadvantage. What is Open Source Software? Brief one example of such software. (f) 2 Expand the following abbreviations: 2 (g) a. PPP b. GSM c. GNU d. SMS Q2(a) A list namely *playerList* has *selectionMode* property set to 1

SINGLE\_INTERVAL. How would you obtain the selected values? Give example.

	(c)	What do you mean by conditional operator? Explain it with one suitable example.	1
	(d)	Write one property of  element in HTML.	1
	(e)	Write code in HTML to display following contents using list.  III. Rahul  IV. Ketan  V. Mahima  VI. Shalini	2
	(f)	<pre>What will be displayed in output window after the execution of the following loop? int ptr=5,cnt; for(cnt=10;cnt&gt;0;cnt=cnt/2)   ptr = ptr + cnt; System.out.println("Ptr : " + cnt + " " + "Cnt : " + ptr);</pre>	2
	(g)	Write java code that takes one value of integer type. Find out cube of it. Assign result to the String object and display result.	2
<b>Q</b> 3	(a)	Which MySQL command helps you to see the structure of the table?	1
	(b)	Mr. Karan Vairagi wants to remove the entire content of a table "Hospital" along with its structure to release the storage space. What MySql command should he use? And also write the category of the command.(DDL / DML).	1
	(c)	Table Employee has 4 rows and 3 columns. Table Status has 5 rows and 2 columns. What will be the cardinality and degree of the Cartesian product of Employee and Status?	1
	(d)	While Creating table Sports, Ms. Poonam forgot to add the field TYPE with type character and size 10. Help her to write MySql command to do so.	1
	(e)	Distinghish between alter table and update command of MySql with one	2

(b) Write a statement in java to display message "Hello" using dialog box

1

example of each one.

- (f) There is a column Price in a table Product. The following two statements are giving different outputs. What may be the possible reasons?
  - Select count(\*) from Product;
  - Select count(Price) from Product;
- (g) What is the use of constraints in MySql? Write MySql query to remove 2 constraint Primary key for the field Account\_Number in the table Bank.

Q4

- (a) What do you mean class and object? Explain. Also mention the class from 2 which the jPasswordField1 belongs?
- (b) Rewrite the following program using a switch statement.

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(c) What will be displayed in jTextArea1 after executing the following statement?

```
jTextArea1.setText("World\nCup\t2015");
```

(d) Find out output of the following code:

```
String text1 = "Computer";
String text2 = "world";
text1 = text1.toLowerCase();
text2 = text1;
String message = text1.concat(text2);
System.out.println(message+(message.length()+4));
```

(e) How many times is the following loop executed? And also convert it into 2 for loop.

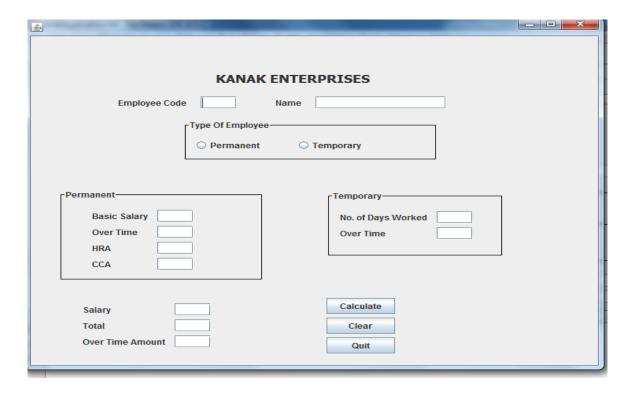
```
int number=5;
do
```

```
{
    System.out.println(number);
    number- -;
} while (number >=1);
```

(f) Find out the errors, if any

```
int Counter=0;
mm=0;
while ( Counter < 10 )
{
    if (Counter % 2 = 0)
    {
        mm =/ 10 ;
        jTF1.putText(mm);
    }
    Counter++;
}</pre>
```

(g) Kanak enterprises is a Yarn Manufacturing Company. The Human Resource Department manages 100 employees on regular basis. The company provides salary on two categories: Temporary employee and Permanent Employee. The account department instructs the computer department to develop a salary calculation form as shown below:



The list of swing controls for the above is as follows:

Object Name	Description
codeTF	Code of the employee
nameTF	Name of the employee
salaryTF	Basic salary of the employee
otpTF	Over Time for Permanent Employee
ottTF	Over Time for Temporary Employee
hraTF	House Rent Allowance of Employee
ccaTF	A type of allowance of Employee
daysTF	Number of days worked
amtTF	Salary Amount
totTF	Total Amount
otaTF	Over Time Amount

- (i) Write code for the both Permanent and Temporary radio buttons that when 1 user click Permanent button, then text boxes available in Temporary panel is automatically disabled. Similarly, when user click Temporary button, then text boxes available in Permanent panel is automatically disabled.
- (ii) Write the code of clear button to clear all the values stored in all the text 1 boxes and temporary employee should be selected as default employee.
- (iii) Write code for the calculate button to calculate the salary amount, over 3 time amount and total amount.

The criteria for salary calculation is as given below:

For permanent	- Hra is 20% of basic salary
employee	- CCA is Rs. 500
	- Over time allowance is Rs. 75 per overtime hour
	- Salary amount is the sum of basic+hra+cca
For temporary	- Salary is Rs. 250 per day
employee	- Overtime is Rs. 50 per day overtime hour

Total amount for permanent and temporary employee will be calculated as the sum of total salary amount and over time amount.

### **ROLLBACK** statement?

- (b) Mr. Anoop Singhvi created a table SUPER with 5 rows and 7 columns. He added 4 more rows to it and delete two columns. What will be the cardinality and degree of the table SUPER?
- (c) Mr. Ramdin runs his medical store and he has created table STORE with Ayurvedic medicines. Write command of SQL for (i) to (iv) and output for (v) to (vii)

**Table: STORE** 

Batchno	Medicine_name	Company	Type	DOM	DOE	Price
A0051	Godhan Ark	Patanjali	Ark	2005-5-26	2004-8-29	40
P7845	Baheda Churna	Prashant	Churana	2001-8-26	2004-5-21	30
T6832	Kumari Aasav	Dindayal	Syrup	2011-1-1	2015-6-29	100
R49256	Neem Giloy	Kamdhenu	Syrup	2004-5-12	2003-5-8	135
T59923	Jatyadi Taila	Baidyanath	Oil	2001-2-28	2008-2-26	NULL
G5993	Shankhs Pushpi	Baidyanath	Syrup	2004-8-7	2004-5-24	55

- (i) To display the names of all the medicines with the type Syrup.
- (ii) To display the names of all the medicines by the manufacturer Dindayal.
- (iii) To show the price with medicine name in descending order of their price.
- (iv) To add a new row for product with the details: E4992, Kaya Kalp, Patanjali, Churna, 1<sup>st</sup> Dec 2002, 31<sup>st</sup> march 2006, 60
- (v) Select \* from store where company like "%an%".
- (vi) Select count(distinct company) from store;
- (vii) Select avg(price) from store;
- Q6 (a) Write an SQL query to create the table "SalesPerson" with the following structure-

Field	Type	Size	Constraint
Snum	Int	6	Primary key
Sfname	Varchar	15	Field should not left blank
Slname	Varchar	12	
City	Varchar	15	

2

Sales	Double	9,2	
Comm	Double	8,2	

(b) In a database there are two tables 'Books and 'Issued' are shown below-

**Table: Books** 

Bk_id	Book_Name	Author_Name	Publishers	Price	Type	Qty
C0001	Fast Cook	Lata Kapoor	EPB	350	Cookery	5
F0001	The Tears	William H.	First Pub.	650	fiction	20
T0001	My first c++	Brain & broke	EPB	350	text	10
T0002	Let us c++	Yashwant k.	BPB	250	text	40
F0002	thunderbolts	Anna Roberts	First Pub.	750	Fiction	50

Table: Issued

Bk_id	Quantity_issued
T0001	4
C0001	5
F0001	2

Write MySql queries for the following:

i. To list the names from books of text type and quantity issued is more han 2.

2

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2

2

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- ii. To display the book\_id, book\_name and quantity\_issued for all books which have been issued.
- iii. Display total number of books according to their types.

(c) In a database LIC, there is a table **Customer** with the following contents

C_No	C_Name	Policy	DOI	Premium	Pan_No
18450215	Amit	Jeevan Kishore	2005-8-29	1245	AODPM3745
65214581	Saloni	Market Plus	2001-4-15	3402	PIOWM4159
12457786	Zahir	Jeevan Kishore	1997-5-26	9499	WIISL4521
23545871	Ali	Makret Plus	2000-4-25	6408	ALSILW5668
44557581	Martin	Health Plus	2003-6-9	7529	NIWIWL1249

With reference to above table, which column should be set as the primary key? Which column is the foreign key? Give reasons.

**Q**7

- (a) What social impact does e-Governance have on society?
- (b) Write two important features of e-business. Give two most commonly used 2

e-business websites.

(c) Ms. Shristi Suman working as a manager in Dhupia Enterprises wants to 2 create a form in Netbeans to take various inputs from user. Choose appropriate controls from Label, TextField, Radio Button, CheckBox, ListBox, ComboBox & Command Button.

SNo	Control Used to	Control
1	Enter Name , address and salary	
2	Select Gender (Male / Female)	
3	Select Department from available list	
4	Submit the form	

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