

SAMPLE PAPER: 2015

Class :XII

Subject : Informatics Practices

Time: 3 hrs.

M.M. 70

Instructions:

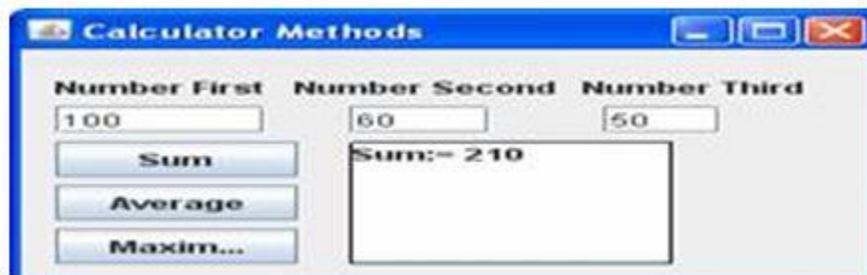
- i) All questions are compulsory.
- ii) Programming language:java

Section A

- a) What is foreign key and Candidate Key? [2]
- b) In a student table, out of RollNumber, Name, Address which column can be set as Primary key and Why? [1]
- c) What is the purpose of distinct clause? Explain with example. [2]
- d) While Creating a table 'Customer_tbl' Meenakshiforget to set the primary key for the table. Give the statement which she should write now to set the column 'CustID' as the primary key of the table? [1]
- e) Write Difference between DDL and DML commands [2]
- f) Write a function in Java that takes principal, rate and time as parameter and returns Simple Interest. [2]

Section B

- a) Define Inheritance with reference to Object Oriented Programming. [2]
- b) Design an application having an interface like: [3]



d) Rewrite the following code using a for loop :

[1]

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

Section C

Write SQL Commands for (i) to (v) and write the outputs for (vi) on the basis of table :

[1x10=10]

Table : FURNITURE

NO	ITEM NAME	TYPE	DATEOFSTOCK	PRICE	DISCOUNT
1	White Lotus	Double Bed	2002-02-23	3000	25
2	Pink feathers	Baby Cot	2002-01-29	7000	20
3	Dolphin	Baby Cot	2002-02-19	9500	20
4	Decent	Office Table	2002-02-01	25000	30
5	Comfort zone	Double Bed	2002-02-12	25000	30
6	Donald	Baby cot	2002-02-24	6500	15
7	Royal Finish	Office Table	2002-02-20	18000	30
8	Royal tiger	Sofa	2002-02-22	31000	30
9	Econo sitting	Sofa	2001-12-13	9500	25
10	EatinParadise	Dinning Table	2002-12-19	11500	25

- To show all the information about the Baby cots from the furniture table.
- To list the itemname which are priced at more than 15000 from the furniture table.
- To list itemname and type of those items, in which dateofstock is before 2002-02-01 from the furniture table in descending order of itemname.
- To display itemname and dateofstock of those items, in which the discount percentage is more than 25 from the furniture table.
- To count the number of items, whose TYPE is "Sofa" from the furniture table.
- Give the output of following SQL statement :
 - select count (distinct type) from furniture;
 - Select max(discount) from furniture;
 - Select avg(discount) from furniture where type="Baby Cot";
 - Select sum(price) from furniture where dateofstock < '2002-02-12';
 - Select count (*) from furniture;

Section D

[1 X5=5]

- SELECT ROUND(20009.111,-2);
- SELECT SQRT(81)+SQRT(49)+SQRT(121);
- SELECT MID('APS Public School' ,11,8), TRIM(LEADING '!' FROM '!!!!WEL COME!!!!');
- SELECT SUBSTR(RTRIM('INDIA IS GREAT '),3,9);
- SELECT CONCAT(UPPER ('xiHum'), LOWER('xiSc'), UPPER(SUBSTR('xiCom',2,3)));

Section E

- Which MySQL command helps you to see existing databases?

[1]

- b) Hemant created a table in Mysql. Later he found that table is wrongly created and he wants to remove it. Name the command by which Hemant can do it. [1]
- c) Aditi created a table named student, she wants to see those students whose name ending with p. She wrote a query-

SELECT name.* FROM student WHERE name = "%p";

Help her to run the query by removing the errors from the query and rewriting it. [2]

- a) Aadhar is not able to set Empid of EMPL table to NULL. Which constraint has he used while creating table? [1]

Section F

- a) Create two tables: [2]

Customer (customer_id , name)

Customer_Sales (transaction_id , amount , customer_id)

Underline columns indicate primary keys and customer_id indicates foreign key in customer_sales Table .Make sure that no action should take place in case of a DELETE or UPDATE in the parent table. Name the foreign key constraint as FK_CUST

- b) In a database there are two tables 'LOAN' and 'BORROWER' as shown below:

<u>Loan_number</u>	<u>Branch_name</u>	<u>Amount</u>
L-170	Downtown	3000
L-230	RedWood	4000
L-260	Perryridge	1700

LOAN

<u>Customer_Name</u>	<u>Loan_number</u>
Jones	L-170
Smith	L-230
Hayes	L-155

BORROWER

- i. Identify the foreign key column in the BORROWER table. [1]
 - ii. How many rows columns will be there in the natural join of these two tables. [1]
- c) If a database "Library" exists. Write the command to start working in this database. [1]

Section G

- a) Define Method Overloading and method overriding? [2]

- b) What is the difference between setEnabled and setVisible methods of a control? [1]

- c) Write the purpose of the following statements. [1]

i) jTextField1.setText("Value"+Math.round(-11.5));

ii) final double g=9.8;

- d) Rewrite the following code using if ..else. [2]

```
switch(ch) {
    case 'a':
    case 'A':
    case 'e':
    case 'E':
    case 'i':
    case 'I':
    case 'o':
```

```

case 'O':
case 'u':
case 'U': ++v;break;
default: others++; }

```

- e) The following code has some error(s). Rewrite the correct code underlining all the corrections made. [1]

```

int i,c,a=5,b=0;
for(i=0,i<20,i++)
{ if b=0 then
break;
else
c=a/b;
system.out.show("Quotient"+c);

```

- f) Dream Land Enterprises has computerized its billing. The following data entry screen is used to generate bill

The criteria for calculation of delivery and handling charges is as given below-

Category of City	Charges
A Class	Rs. 3500
B Class	Rs. 4000
C Class	Rs. 4500

- i. Write the code to make the text files txtSubTotal, txtTax, txtDelHanCh and txtTotal non editable and set the category of city as C class. [2]

- ii. Write code to do the following-

1. Write the code for Calculate button to calculate and display Sub Total, Tax, Delivery & Handling Charges and Total depending on the category of the city.

[3]

- o Sub Total is calculated as Unit Price * Quantity.
- o Tax is calculated as 7.85% of Sub Total
- o Total is calculates as the sum of Sub Total, Tax and Delivery and Handling Charges. If Company Employee check box is checked then tax should be 2.5%.

2. When Clear button is clicked all the text boxes should be clear and Close the application when Exit button is pressed.

[1]

Section H

- a) Differentiate between <A> and tag of HTML. [1]
- b) Write any two features of XML [1]
- c) Difference between ROWSPAN and COLSPAN attribute. [1]
- d) Write a function in java that take a number as parameter and return true if number is palindrome otherwise return false. [2]
- e) Compare .XML and .CSS,DOC File in XML. [1]
- f) What is the wrong in the following coding ? [1]
- ```
<HEAD><MY WEBPAGE>
```

<TITLE> Welcome to my web page

</HEAD>

</TITLE>

g) Write HTML Code to display these Text :

[2]

$C_aSO_4$   
 $(a+b)^2=a^2+b^2+2ab$

h) Write the html code to display the following controls :

[3]

The screenshot shows a web form titled "Dream Land Enterprises". The form contains the following elements:

- Product ID**: A single-line text input field.
- Product Description**: A multi-line text input field.
- Quantity**: A single-line text input field.
- Unit Price**: A single-line text input field.
- Sub Total**: A single-line text input field.
- Tax**: A single-line text input field.
- Delivery & Handling Charges**: A single-line text input field.
- Total**: A single-line text input field.
- Category of City**: A group box containing three radio buttons labeled "A Class", "B Class", and "C Class".
- Company Employee**: A checkbox.
- Calculate**: A button.
- Clear**: A button.
- Exit**: A button.