SAMPLE PAPER

Class- XII - Commerce

MM: 70

TIME: 3hrs. Sub – Informatics Practices

General Instruction

- 1. All questions are compulsory.
- 2. Programming language: JAVA

Answer the following questions. A. A.1 Which protocol is used to control the transfer of E-Mail message on internet? (1)A.2 Write the names of two propriety software. (1)A.3 Which symbol is used to separate the IP address? (1)A.4 In which topology, each node is connected to other all nodes directly? (1)A.5 Define the followings: (a) HUB (b) Switch (2)A.6 What is MAC Address? What does the first three bytes indicate? (2)A.7 Explain any two threats to Network Security. (2)В. Answer the following questions: B.1 Which property would you set for setting the password character as "\$?"? (1)B.2 Write one disadvantage of switch statement. (1)B.3 Which is the smallest heading tag? (1) B.4 Which tag is used to define header row of a table? (1)B.5 What will be the contents of jLabel1 after executing the following code: (2)String str1 = "Informatics", str2 = "Practices"; int L1,L2; L1 = str1.length();L2 = str2.length();if (L1 == L2)¡Label1.setText("Strings are of same length"); else ¡Label1.setText("Strings are of different length"); B.6 Write a function in java which accepts length and breadth of a rectangle and returns its area. Formula to calculate area of rectangle is length * breadth. (2)B.7 Write two differences between HTML and XML. (2)

C Answer the following questions.

- C.1 Which command is used in MySQL to make the changes permanent? (1)
- C.2 Sujata has created a table in MySQL. Later on she found that the width of name column is not sufficient for entering some long names. She wants to increase the width of the name column. Which command she should give to do this? (1)

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C.3
      What are constraints? Explain any two.
                                                                                           (2)
C.4
      What is join?
                                                                                           (1)
C.5
      Differentiate between Candidate and Alternate Key.
                                                                                           (2)
C.6
      The COACHNAME column of a table "Club" is given below:
                                                                                           (1)
                   CoachName
                   Raghav
                   Sumit
                   Anurag
                   Rohit
                   Lucky
      Based on this information, find the output of the following queries:
C.6.1 SELECT CoachName FROM Club where CoachName like '%a%';
C.6.2 SELECT CoachName FROM Club where CoachName like '_u%';
C.7
      A table book in a database has 5 columns and no rows in it. What is its degree? What will be
      its degree if 3 rows are added in the table.
                                                                                           (1)
D.
      Answer the following questions
D.1
      Define a base class and derived class.
                                                                                           (1)
      What will be the contents of sum after executing the following code:
D.2
                                                                                           (2)
      int i=2, j=5, sum=0;
      while (i < j)
             sum += i;
             i++; }
D.3
      What is case sensitive? Is Java case sensitive?
                                                                                           (1)
D.4
      Rewrite the following code fragment using if.
                                                                                           (2)
      char ch = 'N';
      switch (ch)
             case 'E': eastern + +; break;
             case 'W': western ++; break;
             case 'N': northern ++; break;
             case 'S': southern + +; break;
D.5
      The following code has some error (s). Rewrite the correct code underlining all the corrections
      made:
                                                                                           (2)
      int i = 2, j = 5;
      while i > i
            jTextField1.getText("j is greater");
```

```
j - -;
+ + i; }
```

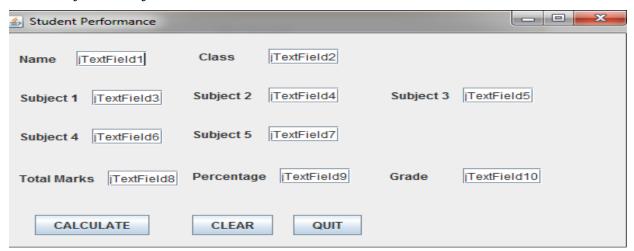
Joptionpane.showMessageDialog("Hello");

D.6 What will be the contents of jTeftField1 and jTextField2 after executing the following code:

(2)

```
String str = "Mahatma";
jTextField1.setText( str.substring(4));
jTextField2.setText( " " + str.length());
```

D.7 DAV Public School has computerized its student performance system. The following is the data entry form in java used:



Object Type	Object Name	Description
Frame	jFrame	The Frame Object
Command	cmdCalculate	To calculate the total, percentage and grade
Button	cmdCear	To clear all the textfields
	cmdQuit	To quit from application
Radio Button	jRB1	To select medical System
	jRB2	To select Non-Medical System
Text Fields	jTextField1	To accept name
	jTextField2	To accept class
	jTextField3	To accept Sub1
	jTextField4	To accept Sub2
	jTextField5	To accept Sub3
	jTextField6	To accept Sub4
	jTextField7	To accept Sub5
	jTextField8	To display total
	jTextField9	To display percentage
	jTextField10	To display grade

D.7.1 On clicking the calculate button: Total marks should be calculated as sum of all the five subjects and percentage and grade. To calculate the grade:

(3)

For Medical Students

Percentage	Grade
>=85	A1
>=60 and <85	A2
<60	B1

For Non-Medical Students

Percentage	Grade
>=80	A1
>=60 and <80	A2
<60	B1

- D.7.2 On clicking the Clear Button, the contents of all the textfields should be cleared. (2)
- D.7.3 On clicking the Exit Button will close the application. (1)

QE Answer the following questions:

- E.1 Differentiate between CHAR & VARCHAR data types. (2)
- E.2 Write the output of the following SQL queries: (2)
 - E.2.1 Select SUBSTR("TITANIC", 2,3);
 - E.2.2 Select LENGTH ('C.B.S.E.');
 - E.2.3 Select TRUNCATE(3.4829,1);
 - E.2.4 Select CONCAT('Around', 'The', 'World');
- E.3 Consider the table Movie given below. Write commands in MySQL for (E.3.1) to (E.3.4) and output for (E.3.5) to (E.3.8) (6)

S.No	Title	Туре	Stars	Qty	Price
1	Hum	Drama	Amitabh	3	90
2	Partner	Comedy	Govinda	5	80
3	Darwaja	Horror		2	60
4	Dhamal	Comedy	Sanjay D	4	85
5	Veerana	Horror	Hemant	1	50
6	Dil	Drama	Amir Khan	3	75

- E.3.1 To display a list of all movies with price more than 70 and sorted by price in descending order.
- E.3.2 List the title, type and stars of comedy movies.
- E.3.3 List Movie No, Movie Name and value of all movies. (Note Value can be calculated as Qty * Price)
- E.3.4 Display all the information of movies whose Title's second last letter is alphabet 'a'.

- E.3.5 Select Max(Price) from movie;
- E.3.6 Select Title, Type from movie where Stars is NULL;
- E.3.7 Select S.No, Title from movie where stars = 'Govinda';
- E.3.8 Select distinct type from movie.
- E.4 Write a SQL command to create a table "LIBRARY" with the following structure: (2)

(2)

(6)

Field	Туре	Constraints
Book_no	Integer (4)	Primary Key
Title	Varchar(40)	Not Null
Author	Varchar(30)	
Publisher	Varchar(30)	
Pages	Integer (4)	
Date_of_Pub	Date	

E.5 In a database, there two tables 'Employee' and 'Dept' as shown below:

DEPT

DEPT_CODE	DEPT_NAME
MKTG	Marketing
PERS	Personal
ACCT	Accounts

EMPLOYEE

EMP_NO	EMP_NAME	SEX	DEPT_CODE
1	Nidhi	F	ACCT
2	Rajesh	M	MKTG
3	Pankaj	M	PERS
4	Puneet	M	ACCT
5	Amita	F	MKTG

- E.5.1 Identify the foreign key column in the table Employee.
- E.5.2 How many rows and columns will be there in the Cartesian Product of these two tables?
- E.6 Consider the tables PLAYER & COACH given below:

PLAYER

Player_ID	Player	Sex	Coach_ID
1	Vinod	M	1
2	Rajni	F	3
3	Rahul	M	1
4	Ankita	F	3
5	Vishesh	M	2

COACH

Coach_ID	Coach_Name	Game
1	W.S. Sangwan	Hockey
2	Sushil	Cricket
3	Suman Malik	Kho-Kho

With the reference of these tables, write commands in SQL for (E.6.1) to (E.6.2) and output for (E.6.3) given below:

- E.6.1 Display the Player Name, Sex and corresponding Coach Name for all players.
- E.6.2 Display the Player Name and Coach Name of Fenale players.
- E.6.3 Select Player, Sex from Player, coach where player.coach_id = coach.coach_id and game = 'Hockey';

QF Answer the following questions:

- F.1 What is Back End? (1)
- F.2 Write two positive social impacts of E-Governance. (2)
- F.3 What controls will you suggest for the following: (2)

	SNo	Control used to	Control
1		A Mouse Click	
2		Typed Text (multiple lines)	
3		Multiple choices from a set	
4		Multiple items from a group	
		of names	



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