Informatics Practices 2014-2015
Subject-Informatics Practices (065)

Time- 3hrs   Max Marks- 70

General Instructions :

1. This question paper is divided into four units and four sections
2. Unit- I, Section – A consists 10 marks.
3. Unit- II, Section – B consists 25 marks.
4. Unit- III, Section – C consists 30 marks.
5. Unit- IV, Section – D consists 5 marks.
5. Attempt all the parts of a section together.

Unit - I
Section - A

Q1. Answer the following Questions:

1. Write the name of most suitable communication wireless channels for each of the following situations   2
   a. Communication between two offices in hilly areas.
   b. Transfer data from one mobile phone to another
2. Brightlands Girls Sr. Sec. School installed Windows 7 and Open Office for its computer lab computer lab. Which type of software is Windows 7 and Open Office?   1
3. Heena says that the following numbers indicate an address : 20:AC:C2:56:3D:AB
   What is the above address called? What does the last three values of it stand for?   2
4. Write the name used to refer the difference between the highest and lowest frequencies of a transmission channel.   2
5. Mr Daya Shankar is planning in his office building to connect all computers, each spread over within distance of 50 meters. Suggest the economical cable type having high speed data transfer rate which can be used to connect these computers.   1
6. Mr Saxsena a MD of Alpha Industries wants to set up his branches in the 2 different cities in the country. His corporate office is in Mumbai and Head office is in New Delhi and registered office is in Ahmedabad .He is confused regarding the type of network which is required to connect his different offices located in different cities and connect different computers in different offices.   1
7. An organization is planning to link its head office situated in Delhi with the office at Srinagar. Suggest an economic way to connect it; the company is ready to compromise on the speed of connectivity. Justify your answer.   1

Unit - II
Section – B

Q1. Answer the following Questions:

1. Mr kapoor has its office address consist of 4 different lines which he wants to enter in textarea in different lines. Which property of textarea he should use for the same.   1
2. Mr Mehta wants to display The "AGCS" Purulia in a TextField named schoolTF. Write the command in java to do that.   1
3. Differentiate between the <TR> and <TD> tags of HTML with the help of an appropriate example.1
4. What will be displayed in JTextArea1 after executing the following statement   1
   JjTextField1.setText("Object \n Oriented \t programming");
5. Which HTML tag inserts a horizontal straight line on a web page?   1
6. How is <P> tag different from <BR> tag in HTML?   1

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7. While working in NetBeans, rajmeeta included a Listbox in the form. Now she wants the list of her friends' names to be displayed in it. Which property of Listbox control should she use to do this? 1

Q2. Answer the following Questions:

1. Write the following code using if…else? 2

```
 int a =1;
switch(a){
        case 1 : System.out.println("a is one");
                break;
        case 2 : System.out.println("a is two");
                break;
        case 3 : System.out.println("a is three");
                break;
        default : System.out.println("a is not an even number");
                break; }
```

2. Write the output of the following code 2
```
int f=1,i=2;
do{
        f*=I;
    }while(++i<5);
System.out.println(f);
```

3. How many times will each of the following loops execute? Which one of these is an entry control loop and which one is an exit control loop? 2

Loop 1:	Loop 2:
Int sum =0, i=5;	Int sum =0, i=5;
do	While (i<5)
{sum +=I;i++;} while (i<5);	{sum +=I;i++;}

4. Write the function in java that takes two numbers as parameters. It then returns that num whose square is greater than the square of other number. In case of equality either number is returned. 2

5. Write function in java that takes cost price and selling price of a good as input and returns the profit made by the shopkeeper. 2

6. What will be the value of a and b after execution of following code: 2
```
Int a=1, b=2;
If(++b<5)
{
        a*=b;
}
```

Q3. Given below the form for Maturity amount calculator:

(a) Write sample code for calculate button to display rate of interest as per rate given in the table and calculate maturity amount.   4

(MaturityAmt = amount+amount*duration*rate_of_Interest*12)

Bank	Rate of Interest	Customer Type
SBI	9%	For SR citizen give extra 2% discount
ICICI	8.5%	
HDFC	8%	

(b) Write sample code for clear button to clear all entries and selection.   1
(c) Write code for close button to close an application.   1

Unit - III
Section –C

Q1. Answer the following Questions:

1. A table Student has 5 columns and 3 rows.   1
   What will be the degree and cardinality of the table after execution of the given sql statement
   Update Student Set Session=2012;
2. Aanchal wants to replace all NULLS in the column COMM of table EMPL with 100. Write the SQL command that solves her problem.   1
3. Aman created a table in MySql. Later he found that there should have been another column in a table. Which command should he use to add another column to the table?   1
4. Which command is used in MySQL to make the changes in database permanent?   1

Q2. Answer the following Questions:

1. What is the purpose of following SQL query: 2
   Select Max(salary) from Emp;

2. The item_No and Cost columns of a table "Items" are given below: 2

IITEM_NO	COST
101	5000
102	NULL
103	4000
104	6000
105	NULL

Based on this information, find the output of the following queries:
(a) Select AVG(COST) from ITEMS;
(b) Select COST+100 from ITEMS where IITEM_NO>103;

3. A table "customers" in a database has 5 columns and no rows in it. What is its cardinality? What will be its cardinality if 4 rows are added in the table? 2
4. What is the purpose of DROP table command in SQL? How is it different from DELETE command? 2
5. What is the purpose of Commit statement in SQL? How is it different from ROLLBACK statement? 2
6. Write output of the following SQL queries : 2
(a) SELECT TRUNCATE(222.78);
(b) SELECT DAYOFMONTH('2015-1-18');
(c) SELECT MID('I m loving it',-2,1);
(d) SELECT SQRT(POW(2,4));

7. Write MySQL command to create the table "STOCK" with the following: 2

Table: Stock

Column_Name	Data_Type(Size)	Constraint
Goods_Id	Int(20)	Primary Key
Goods_Name	Varchar(20)	
QTY_of_Good_Received	Int (30)	
Qty_of_Good_Issued	Int	
Date_of_Issue		

Q3. Answer the following Questions:
1. Answer the following on the basis of following relation EMP given:

ENO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPNO
735	Sunil Sharma	Manager	790	23/02/13	40000	3500	12
744	GirishGupta	Manager	765	12/02/13	40000		12
752	Suman Nath	Manager	725	06/06/14	34000	4000	12
778	Rita Sharma	Accountant	765	13/12/13	35000	2500	13
785	Sajan Kumar	Clerk	752	09/03/14	12000		12
790	Seema Rani	Analyst	790	02/10/13	35000	3500	13

(a) To list the employees name of department no 12. 1
(b) To list all employees name with hiredate in ascending order. 1
(c) To display ename, job and mgr whose salary more than 34000. 1
(d) To count the numbers of employees, department number wise. 1

(e) Give the output of the following SQL commands: 2
    a. SELECT MIN(DISTINCT SAL) FROM EMP;
    b. SELECT MIN (SAL) FROM EMP WHERE DEPNO=13;
    c. SELECT SUM(SAL) FROM EMP WHERE DEPNO=12 AND SAL=40000;
    d. SELECT AVG(SAL) FROM EMP WHERE HIREDATE< {13/12/13};

2. In a Database – STOCK and SALES are two tables with the following Information. Write MySQL queries for (i) to (iii), based on tables STOCK and SALES:

Table: STOCK

Goods_Id	Goods_Name	QTY_of_ Good_ Received	Qty_of_ Good_ Issued	Date_of_ Issue	Sales_ID
1001	Locks	27	7	2014-12-27	S01
1002	Books	45	5	2014-12-25	S02
1003	Sugar	44	8	2014-12-15	S03
1004	Salt	35	12	2014-12-09	S04
1005	Notebook	20	9	2015-01-03	S03

Table: SALES

Sales_ID	Sales_Type	AMOUNT
S01	Cash	20000
S02	Credit	15000
S03	Net banking	18000
S04	Cash	22000
S05	Credit	17000

(a) To display the detail of good whose Sales_Type in sales table is CASH. 2
(b) To display Goods_Id, Goods_Name, Sales_ID of all goods whose amount is Greater than 20000. 2
(c) Display the detail of goods in stock whose sales id is "S03. 2

Unit - IV
Section –D

Q1. Answer the following Questions:
    1. Give one societal impact of e-business. 1
    2. Define an attribute. What is a key attribute? 1
    3. Write two advantages of e-Learning sites. 1
    4. Anuja is creating a form for her practical file. Help her to choose most appropriate controls from List Box, Combo Box, TextField, TextArea, Radio Button, Check box, Label and Command button for the following entries from user: 2
    (a) A message "Enter Marks" in front of a Text Field.
    (b) An input to choose more than one subjects from a set of given choices.
    (c) An input for entering remarks.
    (d) An input for accepting Gender.