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**MODEL QUESTION PAPER 2012-13**

**INFORMATICS PRACTICES (065)**

**ANSWER KEY- SET-3**

1.

- a) Bluetooth and Infrared . - ½ mark each
- b) FTP (File Transfer Protocol) -1 Mark for correct answer
- c) Firewall -1 Mark for correct answer
- d) Open standard formats are : (1) .OGG (2) .JPEG -1 mark
- e) DOS (denial of Service) : types of attacks that prevent the legitimate users of the system from accessing or using the resources, information or capabilities of the system. -1 mark
- f) Non-Dedicated Server: On a small networks, a workstation which serve as a server as well as normal workstation is known as non-dedicated server. It is not completely dedicated for serving .  
Dedicated Server: On big Network , a server reserved only for server's job for different activities of server is known as dedicated server. -1 mark each
- g) Advantages of Open Standards: - ½ mark each
- (1) Making the data accessible to all.
  - (2) Application and Platform independence
  - (3) Diversity and interoperability in the industry
  - (4) Offers diverse choices for users.

2.

- (a) Which property of JLabel box is used to specify the image during design time?  
*Icon*
- (1 mark for correct answer)
- (b) Which statement is used to terminate the loop before its maturity?  
*break;*
- (1 mark for any of the correct answer)
- (c) Which HTML tag and corresponding attributes are used to establish default font size for entire page?  
*<BASEFONT> tag and SIZE attribute*
- (1/2 mark for each correct answer)
- (d) What is the difference between <UL> and <OL> tag?  
*<UL> tag is used for unordered list of items and <OL> tag is used for ordered list of items.*
- (1 mark for correct difference)
- (e) What will be the value of a and b after execution of the following code:

```

int a=1,b=2;

if( ++ b <5)

{

    a* = b;

}

a= 3, b=3

```

(1 mark for each correct value)

- (f) Write a function in java that takes cost price and selling price of a good as input and returns 1 if the shop keeper made profit and 0 if he had made loss.

*private double profitloss(double cp, double sp)*

```

{

    double p;

    p= sp- cp;

    if (p>0)

        return 1;

    else

        return 0;

}

```

*½ mark for header and 1 mark for condition test and ½ mark for return*

- (g) Write some features of XML.

- *XML is designed to carry data, Not to display data.*
- *XML does not DO anything*
- *XML is self descriptive*
- *XML is platform independent.*
- *XML can be used to Create new Languages*

*½ mark for each point (any 4)*

3.

a) Use Employee; ( 1 Mark for correct answer)

b) UPDATE (1 Mark for correct answer)

c) SELECT stdname FROM STUDENT WHERE stdname LIKE ‘\_A% ( 1Mark )

d) ½ Marks for Each Properties -ACID. ( 2 Marks)

e) a) 1 b) 17500 ( 1mark for each correct answer ) (2 Marks)

f) Cardinality : 6 Degree 3 ( ½ Marks for each correct answer)

g) NOT NULL - 1 Mark UNIQUE 1 Mark

4.

(a) What is constructor?

*A constructor is a member method of a class that is called for initializing when an object is created of that class. It has the same name as that of the class's name.*

*(1 mark for correct definition)*

(b) Predict the output of the following.

```
int val1=5, val2= 10;
for (int i=1; i<=2;i++)
{
    System.out.println(" " + val1++ + ";" + --val2);
}
```

5,9

6,8

*½ mark each line of correct output.*

(c) What will be the content of jTextField1 after executing the following statement?

```
jTextField1.setText("Informatics".substring(2,5));
```

*Output:*

*for*

*1 mark for correct output.*

(d) Rewrite the following program code using if elseif statement

```
switch(ch)
{
    case 'a' : system.out.println("It is a."); break;
    case 'b' : system.out.println("It is b."); break;

    case 'c' : system.out.println("It is c."); break;
}
if (ch=='a')
system.out.println("It is a.");
else if (ch=='b')
system.out.println("It is b.");
elseif (ch=='c')
system.out.println("It is c.");
```

*2 mark for correct conversion*

(e) Find the error in the following code and correct it. Underline the correction.

```
do
{
    system.out.println(i++);
} while (i<=10);
```

- *Initial value of I missing*
- *System.out.println(i++);*

*1 mark for each error*

- (f) Find the output of the following program  
class MainString

```
{  
  
    public static void main(String args[])  
  
    {  
  
        StringBuffer city= new StringBuffer("Madras");  
        StringBuffer Str= new StringBuffer( );  
        Str.append(new String(city));  
        Str.insert(0,"Central");  
        System.out.println(Str);  
  
    }  
}
```

*Output: CentralMadras*

*2 mark for correct answer.*

5.

- a) DDL –Data Definition Language , Create table, Alter table etc ( ( 1 Mark)

DML – Data Manipulation Language, Delete, Insert,Update ( 1 Mark)

- b) (i) 2

(ii) lcom

(iii) -1

(iv) 15.2

( ½ Mark for each correct answer)

- c) i) Select \* from TEACHER where Department ='History';

ii) Select Name from TEACHER where Sex='F' AND Department='Maths';

iii) Select name from TEACHER ORDER BY DateOfAdm ASC;

iv) Insert into TEACHER values(9,'Raia',26,'Computer', '13/05/95',2300,'M');

( 1 Mark for each correct sql statement )

- v) a) 3

b) 35

c) 23600

d) NULL

( ½ Mark for each correct answer)

**Que :6**

a) CREATE TABLE COACH

(PCode integer primarykey,Name varchar(20) NOT NULL,ACode integer ,  
Foreign Key(Acode) references Activity(Acode) );

( **FOR CORRECT QUERY SYNTAX 1 MARK & CONDITION 1 MARK** )

b) (1) ModelID – primary in Model table & CompId – primary in Company table { each correct one ½ mark }

(2) In compId column of Model table consists a row value 4 which is not in defined in company table

(Parent table) ( 1 mark)

c) (1) SELECT PatName,PatNo,DocName

FROM DOCTORS,PATIENTS

WHERE DOCTOR.DOCID=PATIENT.DOCID;

(2) SELECT \* FROM PATIENTS

WHERE DOCTOR.DOCID=PATIENT.DOCID

AND OPD\_Days='TTS';

(3) Output :

OPD\_days      Count(\*)

TTS            2

MWF           3

7. (a) Define an entity. What is meant by entity type and entity instance?

*Entity is an object that exists and is distinguishable from other objects. Entity instance is a specific individual thing or object.*

*1 mark for correct definition*

(b) How has today's technology contributed to e-governance?

- *The number of trips to government offices reduced by nearly 11% to 27%.*
- *Bribes reduced by 50% to 90%*

*1 mark for each valid points*

(c) Kumar works for a School. He wishes to create controls on a form for the

following functions. Choose appropriate controls from Text field, Label, Radio Button, Check box, List, Combo Box, Button and write in the third column.

S.No.	Controls Used to:	Control
1	Enter Admission Number	Text Field
2	Select Stream	Radio button

3	Select Subjects	Checkbox
4	Clear the form	Button

*1/2 mark each for correct control*