Guess Paper – 2014
Class – XII
Subject – Informatics Practices (065)

Time : 3 hrs. **MM:70**

Instructions: **(i) All questions are compulsory**

(ii) Answer the questions after carefully reading the text.

SECTION – A (10 Marks)

QA **Answer the following questions:**

A.1 Expand the following terms: (i) PHP (ii) W3C 2

A.2 Differentiate between guided and unguided transmission media. Give two examples of each. 2

A.3 Explain the following: 2

A.3.1 Tomcat

A.3.2 OSI

A.4 Which of the following is not a Open Source/Free Software: 1

a. Mozilla

b. PostgreSQL

c. Tomcat

d. Microsoft Office 2007

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A.5   1

A.6   1

A.7   ABC Co is planning to connect their two different networks using different protocol and having different size in terms of computer. Which device will you suggest them to installed for connection.   1

a. Router

b. Bridge

c. Gateway

SECTION B (25 Marks)

QB   Answer the following questions:

B.1   Name the two properties of TextField and List controls.   1

B.2   What is the purpose of break and continue statement in a loop?
1

B.3   Name the attribute which is used to insert image in background of HTML document with example.   1

B.4   What is XML? How is it different from HTML?   1

B.5   What will be the value of sum after executing the following code?   2

double i, sum = 2;

for(i = 3; i < 8; + + i)

{   if(i%4 = = 0)

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```
   {    break;

        sum=Math.pow(sum, i);

    }

   else

     sum + = i / 2;

}
```

B.6   Differentiate between implicit and explicit type conversion.   2

B.7   What do you mean by data types? How many types of data types are there in java. Name them.   2

B.8   What is the difference between Call by Value and Call by Reference?   1

B.9   What is Inheritance? Name the inheritance types which is not supported by Java.

        1

B.10   What do you mean by ODBC? How JDBC is different from ODBC?   2

B.11   What will be the output of the following code snippet: 1

        int z, x = 3, y = 5;

        z = - - x + y + + ;

        System.out.println(z);

B.12   Rewrite the following code using for loop.   2
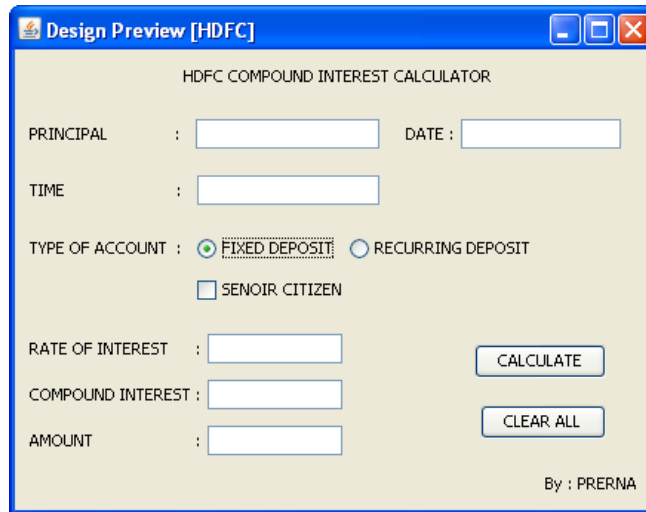
        int i=0;

        while(+ + i < 20)

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```
{   if( i = = 8)

        break;

    System.out.println(i++);

}
```

B.13   Write a java method that receives a 3 digits integer and returns its middle digit.   2

B.14   Prerna is programmer at HDFC bank. To calculate the amount and interest, she has developed the following GUI in

NetBeans.

Object Type	Object Name	Description
Text Field	principalTF	To get principal
	timeTF	To get time
	dateTF	To get date
	interestTF	To show rate of interest
	compoundTF	To show Compound Interest
	amountTF	To show amount
Labels	principalLbl	
	timeLbl	
	dateLbl	
	typeofaccountLbl	
	rateofinterestLbl	
	compoundinterestLbl	
	amountLbl	
Button	calculateBTN	To calculate compound interest and amount
	clearBTN	To clear textboxes, checkboxes & radio buttons
Check Boxes	seniorCB	

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Radio Button	fixedRB	For fixed deposit
	recRB	For recurring deposit

a) Make sure that Principal amount entered is positive numbers only.   1

b) Write the code for calculateBTN to calculate compound interest and amount and display the values in textboxes interestTF and amountTF.   2

$$Compound\ Interest = P*(1+r/100)\char`\^T$$

$$Amount\ = Principal + Compound\ Interest$$

Rate is calculated based on the time according to the following table.

Account	Time(in yrs)	Rate
Fixed Deposit	<=1	10%
	>1 and <=5	12%
Recurring Deposit	<=2	10%
	>2 and <=7	12%

An additional rate of 2% is given to senior citizens

c) Write the code to clear all the textboxes and checkboxes except Date text field. Set the default choice in the option button as fixed deposit.   2

d) Display the current date in the textfield Date.   1

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C.5.2   How many rows and columns will be there in the Natural Join of these two tables?

C.6   The Department column and date of joining of a table Employee is given below: 2

Department	Date_of_Joining
Biology	2009-07-19
Zoology	2007-02-13
Bio_Tech	2010-05-15
Psycology	2011-09-06

C.6.1   Based on the above table, write SQL Query to display the name of those department whose name ends with logy.

C.6.2   Based on the above table, write SQL Query to display the name of those department whose name starts with Bi.

C.7   What is the purpose of ALTER TABLE command in MySQL? How is it different from UPDATE

command?   2

C.8   Differentiate between a Primary Key and Unique.   2

C.9   What is the purpose of DROP TABLE command? How is it different from DELETE command?   2

C.10   In the above given table Employee, Mr Roy wants to display the date of joining of those employees whose date of joining is less than 15-05-2010. He has written the following Select statement which is not giving correct result.

Select * from Employee where Doj<15-05-2010;   2

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Help Mr Roy to run the query by removing the errors. Write the correct query.

C.11   Write Sql Commands to create the table **Members** with following specification: 2

Field Name	Data Type	Size	Constraints
Member_Id	Varchar	5	Primary Key
Membership_fees	Integer		Less than 500
Expiry_Date	Date		

C.12   Write SQL commands for the queries given from a to d and e to h write the output of the SQL commands based on a table LIBRARY shown below:

Table: LIBRARY

No.	Title	Author	Subject	Publisher	Quantity	Price
1	Data Structure	Lipschute	DS	McGraw	4	217.00
2	DOS Guide	NORTRON	OS	PHI	3	175.00
3	Turbo C++	Robort Lafore	Prog	Galgotia	5	270.00
4	Dbase Dummies	Palmer	DBMS	PustakM	7	130.00
5	Mastering Windows	Cowart	OS	BPB	1	225.00
6	Computer Studies	French	FND	Galgotia	2	75.00
7	COBOL	Stern	Prog	John W	4	1000.00

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8	Guide Network	Freed	NET	Zpress	3	200.00
9	Basic for Beginners	Norton	Prog	BPB	3	40.00
10	Advanced Pascal	Schildt	Prog	McGraw	4	350.00

C.12.1 To display the title of all books with Price between 100 and 300.　　　　1

C.12.2 To display Title and Author of all the books published by BPB.　　　　1

C.12.3 To display the list of all the books with price more than 130 in ascending order of quantity.　　1

C.12.4 To display the list of all books whose quantity is less than 4.　　　　1

C.12.5 Select MIN(Price) from Library;　　　　½

C.12.6 Select Sum(Price * Qty) from Library where quantity > 3;　　　　½

C.12.7 Select Avg(Price) from Library where quantity < 4;　　　　½

C.12.8 Select Count(Distinct Publisher) from Library;　　　　½

C.13　Answer the following questions:

C.13.1 SELECT CONCAT(LOWER('Class'),UPPER('xii'));　　　　1

C.13.2 SELECT SUBSTR(TRIM('   I LOVE PROGRAMMING   ')5,7);　　　　1

C.13.3 Difference between CHAR and VARCHAR data type.　　　　1

C.13.4 Differentiate between COMMIT and ROLLBACK.　　　　1

C.13.5 SELECT DAYOFMONTH('2010-10-17);　　　　1

C.13.6 What is Column alias?　　　　1

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QD   Answer the following questions:

D.1   Give URL of two of the commonly used E-Business portals.   1

D.2   Write any two positive impacts of E-governance.   2

D.3   Rajesh is developing his project on Customer Management for CBSE Examination. Help him to select

proper controls from the list i.e Combo Box, Radio Button, Text Area, Command button and text Field

for the following purpose: 2

(i)   To show description of Item.

(ii)   To display item Name.

(iii)   To input price.

(iv)   To accept card type i.e Debit Card, Credit Card Visa Card,.

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