CLASS XII
GUESS PAPER
INFORMATICS PRACTICES

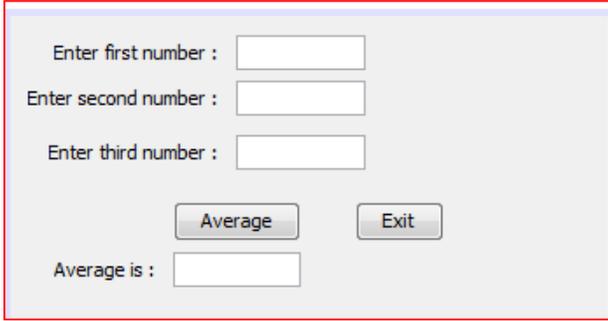**TIME:3:00Hrs**   **M.M:70**

General Instructions:
1. **All Questions are compulsory.**
2. **Marks are given in front of each question**

1.(a) How is it easier to diagnose fault in Star topology then in Bus topology?   2

(b)Does Open source software only means that the software is free of cost? Give reason for your answer. 2

(c)How do computer network reduce hardware cost of an organization? Explain with the help of example
2

(d) (i) Why is a switch called an intelligent hub?   1

(ii) When is a repeater used in a computer network?   1

(e) Write down any two advantages of Open Source Software over Proprietary software.   2

2(a) Help Manish in identifying the incorrect variable name with justification from the following: 2
      i. unit@price;   ii. fee;   iii. userid;   iv. avg marks

(b)   Write Java code to declare a variable named Price of integer type. Assign a value 100 to this variable.
         Overwrite the value of price with its double value. Decrease the value of price by 50.

(c)   Ms. Sangeeta wants to add few descriptive lines in the HTML code which should not be displayed on
         the webpage rather should remain inactive during execution. Suggest her the solution along with
         example.   2
(d)   How HTML is different from XML? Mention any two point of difference.   2

(e)   Rewrite the following code using switch case: 2

```
int day=Integer.parseInt(jTextField1.getText());
if(day>=1 && day<=5)
jOptionPane1.showMessageDialog(this, "Working Day");
else if(day>=6 && day<=7)
jOptionPane1.showMessageDialog(this, "Off Day");
else
jOptionPane1.showMessageDialog(this, "Invalid Entry");
```

3(a) Write the full forms of the following: 2
                 (i)   DML   (ii)TCL
(b) Mention any two example of common Database Management System.   2

(c) Ram, a class 11 student has just started learning MySQL. Help her in understanding the basic difference between Alter and Update command with suitable example.   2

(d)In a Hospital , Patients are allocated to wards.A database name "Hospital" is created. One table in this database is:WARD with WardId,WardName, Numof beds as columns and WardId as the primary key. Write another suitable table you could expect to see in "HOSPITAL"database, with 4 suitable columns identifying Primary Key and Foreign key.   2

(e)How is HAVING clause similar to WHERE clause? How is HAVING Clause different from WHERE Clause?   2

4(a) The following code has error(s). Rewrite the correct code underlining all the corrections made :
```
int start=2;end=20;                                         2
do;
{
start=start+start;
while(start<=end)
```

(b)   What will be the final value of variable x after the following code is execute: 1
```
int x=10;
while(x>1)
{
x=x/3;
++x;
}
```

(c)   Design a GUI application to calculate the average of three input values in three different text boxes and return the average using return statement.

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1. Write a method called calc_avg( ) which computes the average of three numbers. The method should receive three integer values and returns the average of three numbers.   2
2. Write the code for average button click event procedure to call the calc_avg( ) method with the parameters and return type   2
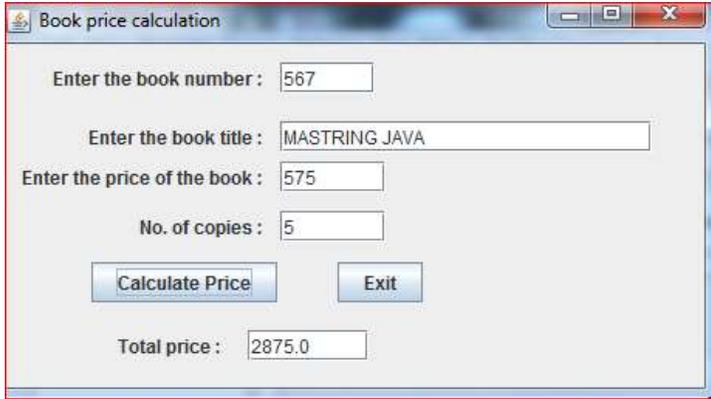

(d)   Define Inheritance in Java   2

(e) i Define a Class BOOK with required Specifications

Data members of the class book are:

- BookNo   Integer
- Book_Title   String
- NoOf books   Integer
- Price   Float(Price per Copy)
- Total_Cost( ) A function to calculate the total cost for number of copies

Member method of the class book are:

- INPUT( )   Function to read no of books,Books_title,Price.

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(i)Define a Class BOOK with required Specifications   3

(ii) Write the code for calculate price button. Click event procedure to operate the class Book's method 3

5(a) Mr. Sharma has just created a table named "Student" containing columns Sname, Department, Marks After creating the table, he realized that he has forgotten to add a primary key column in the table. Help him in writing SQL command to add a primary key column stuid. Also state the importance of Primary key in a table.   2

(b) Write the difference between COMMIT and ROLLBACK   2

(c) What is ATOMICITY in MySQL   2

(d) What is a Join and explain different types of Joins?   2

(e)Write the Output of the following SQL queries: 2
   i.   SELECT RIGHT("introduction to MySQL",2);
   ii.   SELECT DAY OF MONTH('2010-04-29');
   iii. SELECT LENGTH('D.B.M.S.');
   iv.   SELECT TRUNCATE(67.174,1);

6(a) Write SQL query to create a table "Registration" with the following structure: 2
Table: Registration

Field name	Datatype	Size	Constraint
Reg_Id	Intege	2	Primary key
Name	Varchar	20	
Course	Varchar	10	
Join_Dt	Date		

(b) In a database there are two tables "Display" and "Model" as shown below: 2
Table: DISPLAY

DispID	DispName	DispHO	ContPerson
1	Tital	Okhla	C.B.RAJA
2	Maxima	Shahdra	V.KOHLI
3	Ajanta	Najafgjar	R.MEHERA

Table :MODEL

ModelNo	DispID	ModelCost
T020	1	2000

M032	4	2500
M059	2	7000
A167	3	800
T024	1	1200

(i) Find the foreign Key column in the table model
(ii) Check every value in DispID column of both the tables. Do you find any discrepancy?

 (c) In a database there are two tables **BOOKS & ISSUED** as shown below:

Table: BOOKS

BookId	Book_Name	Author_name	Publishers	Price	Type	Qty
C0001	First Cook	Lata Kapoor	EPB	355	Cookery	5
F0001	The Tears	William	First Publ	650	Fiction	20
T0001	MyFirst C++	Brain& Brook	EPB	350	Text	10
T0002	C++	A.W.Roy	TDH	350	Text	15
F0002	Thunder	Anna Roberts	First Publ	750	Fiction	50

Table:ISSUED

BookId	Quantity_Issued
T0001	4
C0001	5
F0001	2

Write the SQL commands for the following: 6

   i.   Identify primary keys in the table given above.
   ii. To display the BookId,Publisher and Quanity_Issued for all books in the descending order of quantity
   iii. c.To display the BookId,Book_name,and Quantity _issued for all books having price more then 300

7(a)) What is Backend?   1

   (b) Write two positive social impact of E-governance?   2

   (c)What control will you suggest for the following: 2

S.No	Control used to	Control
1	A mouse click	
2	Typed text(Multiple line)	
3	Choose gender(M/F)	
4	Submit the form	

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