

GUESS PAPER – 2014
CLASS - XII
SUBJECT – INFORMATICS PRACTICES (065)

Duration : 3 Hours

Maximum Marks : 70

General Instructions:

- I. All questions are compulsory.
- II. Answer the question after carefully reading the text.

- 1.(a) Two neighbors schools at a distance of 130 meters from each other, decide to join their LANs using UTP cables so that they can share their e-learning resources. But after joining their LANs they are not able to share the resources due to loss of signal in between. Which device should they use so that signal is amplified in-between? 1
- (b) Sumit has written two addresses as 198.165.1.5 and AB.YU.2F.K7.12.65.he is not able to find out the difference between these addresses. Help him for the same. 1
- (c) Write example of one Proprietary and one Open Source Software. 1
- (d) Identify the wired and wireless technologies from the followings: 1
 Bluetooth, Optical Fiber, Co-axial, Infrared
- (e) Define any two threats to Network Security? 2
- (f) Define the following: Bridge and a Router. 2
- (g) Give suitable example of URL and Domain Name 2

- 2.(a) Mr. RajKumar is doing Java course from ABC Computers. He has clear the concepts of different operators. Now he is studying about conditional statements .He wants to use the relational and logical operators with conditional statements but he is confused which conditional statement use between IF and Switch.Help him for the same. 1
- (b) What are the values we can give with type attribute in tag? 1
- (c) Why is it necessary to put break statement after every case in a switch statement? 1
- (d) Which tag is used to define the Header row of a table? 1
- (e) What will be the value of sum after executing the following code: 2

```
int x, sum = 0;
for (x= 1; x <=5; x++)
{
    sum+ =x;
}
```
- (f) Write a function in Java that accepts two numbers as parameters and returns the greater one. 2
- (g) How are tags used in XML different from tags in HTML? Write 2 points. 2

3. (a) If a database “Student” exists, which Mysql command helps you to start working in that database? 1
- (b) Pooja created a table in Mysql. Later she found that there should have been another column in the table .Which command should she use to add another column to the table.? 1
- (c) Give one difference between ROLBACK and COMMIT commands used in MySql. 1
- (d) Can a table have multiple primary key? Can it have multiple foreign key? 1
- (e) What is the purpose of following MySql Command: 2
 SELECT MAX (salary) FROM EMP;
- (f) A table “Customer” in database 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
- (g) A table sales has following information: 2

TABLE :SALES

SALES	COMMISSION
60000	560
35000	450
23000	400
8000	NULL

- (i) Select Avg (Commission) for Sales;
- (ii) Select Count(Sales) from Sales;

4.(a) What is the difference between private members and public members of a class 1

(b) Rewrite the following if-else segment using switch-case statement. 2

```
char ch = 'P';
if((ch == 'p') || (ch == 'P'))
    System.out.println("Platinum");
if((ch == 'g') || (ch == 'G'))
    System.out.println("Gold");
if(ch == 'S')
    System.out.println("Silver");
else
    System.out.println("Normal");
```

(c) What is the purpose of the following statement:

```
jTextField1.setText("Informatics Practices",toUpperCase( )); 1
```

(d) What will be the contents of sum after executing the following code: 1

```
int i = 2, j = 5, sum = 0;
while (i < j)
{
    sum += i;
    i++;
}
```

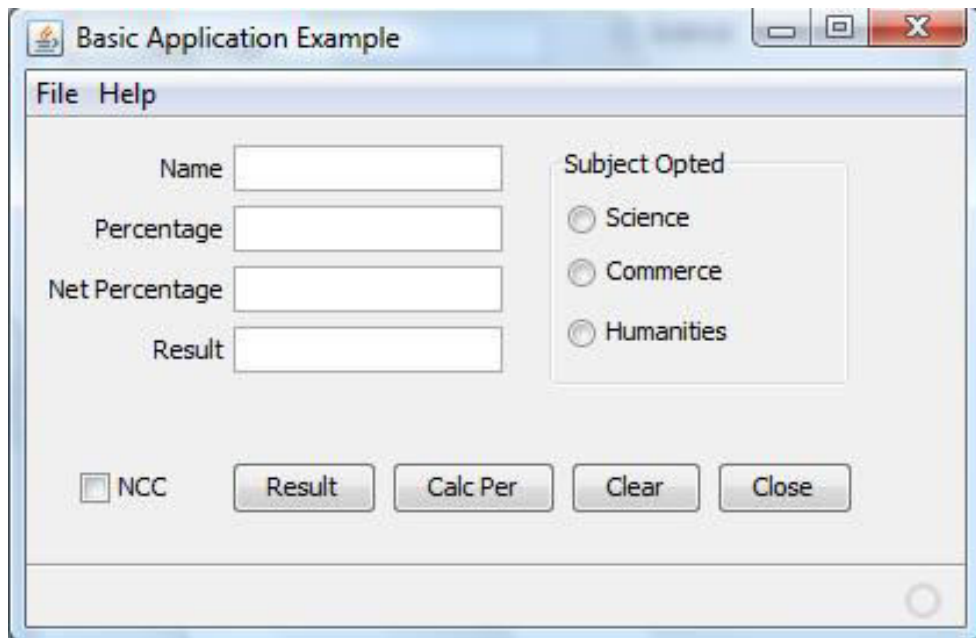
(e) What will be the contents of jTextField1 and jTextField2 after executing the following code: 2

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

(f) The following code has some error(s). Rewrite the correct code underlining all corrections made. 2

```
int i = 2, j = 5;
while j > i
{
    jTextField1.getText("j is greater");
    j --; ++I;}
joptionpan.showMessageDialog("Hello");
```

(g) ABC School uses the following interface built in java to check the eligibility of a student for a particular stream from science, commerce and humanities. The user first enters the total percentage and selects the desired stream by selecting the appropriate option button. An additional 5% is marks is given to students of NCC.



Write Java Code for the following

- a) On the Action event of the close button the application gets closed. 1
- b) On the Action event of the clear button all the text fields and the check boxes get cleared. 1
- c) On Action event of the button 'Calc Percentage' Net percentage of the student is calculated and displayed in the appropriate text filed. Net percentage is same as that of the actual percentage if the student doesn't opts for NCC otherwise 5% is added to actual percentage. 2
- d) On Action Event of the button 'Result', the application checks the eligibility of the students. And display result "" in the appropriate text field. Minimum percentage for science is 70, for commerce 60 and for humanities 40. 2

5.(a) How can you remove the column of a table? Explain with example.

2

(b) What are TCL commands? Explain the role of Commit and Rollback with example.

(c) Consider the table **Doctor** given below, write command in SQL for (1) to (4) and output for (5) to (8).

Table : **DOCTOR**

ID	Name	Dept	Gender	Experience	ConstFee
201	R.K. Nath	ENT	M	12	300
457	Mahavir Singh	SKIN	M		500
365	M. Asthana	MEDICINE	F	9	250
221	V. S. Nag	ENT	M	3	150
122	S. P. Sinha	NEPHRO	F		200
110	J. P. Pandey	CARDIOLOGY	M	9	500

- (1) To display name of all doctors who are in Medicine having more than 10 years of experience.
- (2) To display the different departments.
- (3) To display minimum consultation fee of female doctors
- (4) To display name and department of male doctors who has no experience.
- (5) SELECT AVG(ConstFee) FROM Doctor WHERE NOT Gender='F';
- (6) SELECT Count(Experience) FROM Doctor;
- (7) SELECT Name, Experience FROM Doctor WHERE id BETWEEN 100 AND 200;
- (8) SELECT SUM(ConstFee),MAX(Experience) FROM Doctor;

6.(a) Write MySql Command to create the Table "Hotel" with the following structure:

2

Table: Hotel

Field Name	Field Type	Constraint
Room_No	Integer(3)	Primary Key
Type	Varchar(20)	
Fare	Integer(4)	Not Null
Floor	Varchar(10)	

(b) In a database, there are two table "Company" and "Model" as shown below:

Company

CompID	CompName	CompHO	Cont Person
1	Titan	Okhla	BC.Joshi
2	Ajanta	Najafgarh	V.P.Gupta
3	Maxima	Shahdara	R.Kumar

Model

ModelID	CompID	ModelCost
T020	1	2000
M059	2	7000
M032	3	2500

(i) Identify the foreign Key column in the tble model.

1

(ii) Check every value in CompID column of both the tables. Do you find any discrepancy?

1

(c) Consider the tables product and client give below –

Product			
PID	ProdName	Manufactures	Price
T P01	Pen	Cello	5
T P02	Gel pen	Luxar	10
T P03	Ink pen	Luxar	10
T P04	Pencil	Natraj	2
T P05	Sketch	Camel	2

Client			
CID	CliName	City	PID
01	Rakesh	Delhi	TP01
02	Prakash	Mumbai	TP05
03	Suresh	Delhi	TP03
04	Dinesh	Delhi	TP02
05	Pravesh	Banglore	TP04

- i. To Display the details of products whose Price is in the range of 6 to 10
2 (Both value included)
- ii. To display client name, city from table chart and ProdName and price from table
2 product.
- iii. To increase the price of all products by 10. (Product the output only)
2

- 7 (a) Write two major Projects of E-Governance in India? 1
- (b) How is e-learning beneficial to students? 2
- (c) Ashok works for a Hotel. He wants to create controls on a form in NetBeans for the following function. Choose appropriate controls from TextField, Label , RadioButton , CheckBox , List , ComboBox , Button and write in the third column. 2

S.No.	Controls use to	Control
1	Select room type	
2	Enter customers name	
3	Enter arrival date	
4	To book rook	

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TIPS TO SCORE BETTER MARKS IN BOARD EXAMS

- Time management is very essential.
- Read the question paper very carefully as 15 min. are allowed for reading.
- Spend the time wisely by choosing the questions you know better. Neatness and legibility in writing answer is very important.
- Do not get nervous calm and confident.
- Take nutritious food and proper sleep.
- You may first attempt those questions which you know very well.
- There is no short cut to success. Work hard and success will be yours.