

Guess Paper – 2014
Class – XII
Subject – Informatics Practices

Time: 3 hours

Maximum Marks: 70

1. (a) Name the protocol used for sending and receiving e-mails. 1
 (b) Define the following:- i. Bridge ii. Router 2
 (c) Expand them – i. NFS ii. MODEM 1
 (d) Differentiate between MAC address and IP address. 2
 (e) Write down one merits and two demerits of the following topologies: - i. STAR ii. TREE 2

2. (a) ABC public school has developed a JAVA application through which the parents are able to see their deposited fee details for their ward. What should school do so that parents / students are able to view the details shown in text field and can't modify them. 1
 (b) What is the used of break statement in switch construct? 1
 (c) What is the basic structure of HTML file. 1
 (d) Is justified alignment to a paragraph will be assigned in HTML. Justify your answer. 1
 (e) Differentiate between order and unordered list. With example. 2
 (f) Write a small code for Exit Control Loop with explanation. 2
 (g) Write the output from the following:- H₂SO₄ 1
 (h) Write the attributes of <body> tag. 1

3. (a) MySQL runs on which operating systems. 1
 (b) Sachin is assigned an assignment to create a table in which field named DOB may or may not contain value. Tell what is the significance of the keyword. 1
 (c) What will be the output of following code:- SELECT MID(UASE (“ Redundancy”),5); 1
 (d) What do you mean by commit statement? (with example) 2
 (e) The Pincode column of table ‘Post’ is given below- 2

Pincode
110001
120012
300048
281001

- i. SELECT Pincode from Post where Pincode LIKE = “ %1” ;
 ii. SELECT Pincode from Post where Pincode LIKE = “_0%” ;
- (f) A table “Animals“ in a database has 3 columns and 10 records. What is the degree and cardinality of this table? 2

4. a) What will be the contents of jTextField after executing the following statement? 1
 Int a=5, B=10;
 jTextField.setText (‘B’ + ‘a’) irritated cleaver
 b) Predict the output for tan & tan1 if sac equals 7? 2
 int tan = 0, tan1 = 4 ;
 if (sac == 2)

```
{ tan = 4 ; tan1 = 0; }
  else if (sac == 8)
    { tan = 0 ; tan1 = 4; }
  JOptionPane.showMessageDialog ( null , “ tan = “ + tan +” , tan1 = “ + tan1 ) ;
```

c) Convert with while loop instead of for loop. 2

```
int I,j;
for(i=10;i>2;i- -)
{   for(j=2;j<I;j+=2)
    { ++j+=1;
      }
  }
```

d) Convert with Switch case construct:- 2

```
if(num1 % 2 ==1)
  jTextField1.setText(“The”+num1+ “ is Odd number”);
else
  jTextField1.setText(“The”+num1+ “ is Even number”);
```

e) Give the output for the following code fragment: 2+3=5

(i) v = 20 ;
do
{
JOptionPane.showMessageDialog(null , v + “ ”) ;
} while (v < 50) ;
JOptionPane.showMessageDialog(null , “ Bye “) ;

(ii) x=1
for(i=10;i>2;I --=2)
{ ++x+= -- I;
 for(j=2;j<I – 1;j++)
 { x+=j++;
 }
}
System.out.println(x+ “ ”);

10 Virus software Hut has developed the following Interface as shown below.

Virus S/w Hut

Name of customer

Bill amount

Cash
 Credit Card
 Cheque

Calculate Discount

Discount

Net Amount

Stop

If Bill amount is > 10,000 than discount is as follow

Payment Mode	Discount
Cost	15 %
Credit Card	N/L
Cheque	10 %

i. Write the code to Clear all the textfields and radio buttons. 2

- ii. Write code to “Calculate Discount“ button as per given criteria and discount and net amount should be displayed in TextField. 4
- iii. Write code for “Stop“ button to close the interface. 2

5. (a) What do you understand by primary key and candidate key. 2
- (b) Write the output of following SQL queries. 2
- i. SELECT ROUND(6.88,2) ;
 - ii. SELECT MID(‘Discovery Channel’,4,6) ;
 - iii. SELECT DAYOFMONTH (‘2011-03-30’);
 - iv. SELECT TRUNCATE (7.727,1);

- (c) Consider the table STUDENT given below, write SQL Commands for (i) to (vi) and output for (vii) to (x)

RollNo	Name	Class	DOB	Sex	City	Marks
1	Nanda	X	6/6/95	M	Agra	551
2	Saurabh	XII	7/5/93	M	Mumbai	462
3	Sanal	XI	6/5/94	F	Delhi	400
4	Trisla	XII	8/8/95	F	Mumbai	450
5	Store	XII	8/10/95	M	Delhi	369
6	Marisla	XI	12/12/94	F	Dubai	250
7	Neha	X	8/12/95	F	Moscow	377
8	Nishant	X	12/6/95	M	Moscow	489

- (i) To Display all information about class XII students sorted by DOB. 1
- (ii) List the name with uppercase of male student of class X. 1
- (iii) List names all class of all students in descending order of DOB. 1
- (iv) To count the number of student in XII Class of each city. 1
- (v) Increase the marks with 25% of the marks of RollNo. 5 of all the students except Class XI. 2
- (vi) Change the datatype of Name from Char to Varchar(40). 1
- (vii) SELECT DISTINCT(Sex) FROM Student. ½
- (viii) SELECT AVERAGE(Marks) FROM Student GROUP BY Sex. ½
- (ix) SELECT COUNT(*)FROM Student where Class = ‘XI’ ½
- (x) SELECT MAX(Marks) FROM Student. ½

6. (a) Write an SQL query to create the table books with following structure. 2

Field	Type	Constraints
BookID	Varchar (5)	Primary Key
BookName	Varchar (20)	Not Null
Author	Varchar (20)	
Price	Decimal (5, 2)	Check>100

- (b) Following two tables are shown below are preset in database-

BOOK

EID	EbookName	Author
3	Internal terms	Okhla
4	RDBMS	Steve
5	NetBeans	Gosling

COST

Subj ID	EID	Cost
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E40	1	2000
E41	4	1700
E42	3	1800
E43	5	1250

- i. Identify the foreign key column in the table COST. 1
 - ii. Check every value in EID column of both in table. 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 and city is Delhi. 2
- ii. To display client name, city from table chart and ProdName and price from table product. 2
- iii. To display the prodname and cliname of those products whose Manufacture is same as the Manufacturer of PID TP10.

2

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