CLASS XII
SAMPLE PAPER-065
INFORMATICS PRACTICES

Time- 3hrs   **Max^m Marks-70**

General Instructions :
(i)   All questions are compulsory.
(ii)   Answer the questions after carefully reading the text.

Q1   (i)   (a)   Name the device used to connect two different network using different   1
                  Protocol and also write name of device used to amplify signal over a long distance ?
             (b)   Write name of any two wired communication channel and compare them   1
                  as per data transfer rate?
      (ii)   Compare LAN and MAN? Also give example?   1
      (iii) Expand the following terms: 1
                  (a) CGI
                  (b) ISCII
      (iv)   Write the suitable term for the following:
             (a)   Mr Ram wants to gain unauthorized access of information of Mrs Rima.   1
             (b)   Name the Software or Hardware used to prevent unauthorized access   1
                   of information?
      (v)   Every company assigns unique code to devices used for networking?   1
             Write the name of that code and also give example?
      (vi)   What are the network threats with reference to Internet Service?   1
      (vii) Separate the Open Source Software and Proprietary Software from the following?   1
                   Linux, Windows, Java, MySql, Ms-Office, IDM
      (viii) Define the term KEYMAP and Phonetic text Entries?   1

Q2   (i)   What will be an output of the following code if value of ch is 'd' ?   2
            char ch;
            switch(ch){
                   case 'a'   :   System.out.println("It's a vowel");
                   case 'e'   :   System.out.println("It's a vowel");

```
        case 'd'     :      System.out.println("Not a vowel");
                            break;
        default :    System.out.println("Not a valid character");
                            break;
        }
```

(ii)   Mr Mitra wants to store his salary which is 12345.678 in a variable. Write correct   1
         Syntax to declare the variable using proper data type and assign the value?

(iii)   Write any two attributes of <table> tag in HTML?   1

(iv)   Which tag is used to create ordered and unordered list in HTML?   1

(v)   How XML is beneficial in comparison to HTML?   2

(vi)   What will be the value of x and y after execution of the following code?   2

```
int a, x, y=37;
for(x=7;  x<=15;  x++)
{
        y-=x++;
        a=+y;
}
JOptionPane.showMessageDialog(null,"VALUE OF a IS"+a);
```

(vii)   How many times the loop given below will execute?   1

```
int X=20;
int Y=30
do
{
        X+=Y;
        Y-=3;
}while(Y<=25);
```


Q3   (i)   Define the term Referential Integrity?   1

      (ii)   Write the command to remove the column Gender from the table voter?   1

      (iii)   A numeric data field rate contains 7656.879. Write a command to round off rate up to two   1
              decimal places?

      (iv)   (a)   Which command is used to see the list of tables created in a database in MySQL?   ½

              (b)   Which command is used to make any database current database in MySQL?   ½

      (v)   A table report contains 7 rows and 4 columns and table student contains 4 rows and 5   1

Columns. What will be degree and cardinality of cross join of two tables.

(vi) What will be an output of the following query? Write in detail.   1

SELECT T_Name,T_Code,T_salary from Teacher

Where T_Name not like '%T%' ;

(vii) Write the name of the method used to return the value selected in a LISTBOX?   1

(viii) (a) In transaction what happens if AUTOCOMMIT is ON or OFF?   1

(b) What will happen to the current transaction if a DDL statement is executed?   1

(ix) How can you start and end any transaction?   1

Q4 (i) How an Interface is different from a Class? Write any two difference.   2

(ii) Given below the sample code: 1

ClassRoom cr1,cr2,cr3;

Here cr1,cr2 and cr3 refers to what ?

(iii) What will be content of jTextArea1 when following sample java code will be executed?   2

String home="MY SWEET HOME";

int m = home.length-1;

int n = m+20;

jTextArea1.setText(""+m+n);

jTextArea1.append (""+Integer.toString(m+n));

(iv) Write sample code to accept any two number in two Text Field jTextField1 and   2

jTextField2. Store the two number in two different variable n1 and n2 and display

the bigger number in a separate Message Box or Dialog Box and also display

remainder of two number together?

(v) What will be the content of JTextField1 when following code snippet will execute.   1

String str1 = "Kolkata",str2="Alipur";

JTextField1.setText(""+str1.concat(str2));

(vi) How a Constructor is different from Method ? In a class how many constructors can be   2

declared?

(vii) Given below the form for SALARY calculator:

(a) Write sample code for calculate button for the following:

   (i) Basic should be displayed as per designation in its textfield.   2

   (ii) All values should be calculated automatically and to be displayed in its textfield.   2

   (iii) Clear and Close button should be enabled automatically when calculate button is pressed.   1

Q5   (a)   Which function is used to display current date and time in MySql?   1

      (b)   Which function in MySql is used to remove trailing and leading spaces from a string?   1

      (c)   Write the select statement in MySql using function to extract five characters from second position of a string "HEM LATA MODI"?   2

      (d)   Why we use % and * symbol in select statement?   1

      (e)   Consider the table **PLAYER** given below. Write command in MySql for (a) to (g)

Table PLAYER :

Id	Name	City	Date_of_Birth	Games	Fees
P001	Heena	Kolkata	1999-04-02	Athletics	40000
P002	Khushi	Mumbai	2001-05-01	Chess	35000
P003	Rohan	Lucknow	1998-07-09	Carrom	26000
P004	Pravin	Jammu	1997-04-02	Cricket	85000
P005	Twinkle	Ludhiyana	2002-07-09	Athletics	99000

    (a) To display sum of fees as per their city.   1

    (b) To display name each Player whose name contains 'n' as last character.   1

    (c) To display Id, Name and games of eldest player.   1

    (d) Count the different games.   1

    (e) To display the name of the month of date_of_birth of players of Athletics .   1

    (f) Increase the fees of all players by 5%.   1

    (g) Delete the records of players of whose game is carom.   1

Q6   (a) Write MySQL command to create the table "NATIONAL_ATHLETICS" with the following   2 structures and constraints.

Table: NATIONAL_ATHLETICS

Column_Name	Data_Type(Size)	Constraint
U_Id	Int(20)	Primary Key
PLAYER_NAME	Varchar(20)	
SCHOOL	Varchar (40)	
CLUSTER	Int	
GENDER	VARCHAR(35)	

   (b) Write command in MySql to add a column games of data type varchar and size 20 in   1 the above table?

(c)   Consider the table MOBILE AND CUSTOMER given below:

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Player

Code	Name	Game	Cost
P02	Ankit	Chess	12000
P04	Rahul	Carom	15000
P07	Dhirendra	Cricket	22000
P03	Himanshu	Chess	15000

Coach

Ch_No	Ch_Name	Ch_Address	Code
1	Mr Dutta	Rajkot	P07
2	Mr Gupta	Ahmedabad	P02
3	Mr Kumar	Kolkata	P04
4	Mr Sen	Ahmedabad	Null
5	Mr Patel	Rajkot	P07

With reference to these tables, write commands in SQL for (i) to (iii)

(i)   Display the detail of players and corresponding Ch_Name for each Coach.   2

(ii)   Display the detail of coach who teaches chess.   2

(iii)   Display the cross join of the two table.   1

Q7   (a)   Define E-Learning. Write name of any two popular E-learning websites ?   2

(b)   List any two features of good interface?   1

(c)   Identify the type of control used for the following works: 2

Works	Control
To select any subject and in absence of subject it can be added	

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To enter pin number	
To clear the form	
To select gender	

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