CLASS XII
SAMPLE PAPER
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)	Tara Industries has registered office in Delhi and head office in Mumbai and sales office in new Delhi. They want to connect all offices. Suggest the type of network and the type of communication medium the should use for (a) Connecting Registered office with Head office. (b) Connecting Registered office with Sales office.	2
	(ii)	Write any one advantage and one disadvantage of Ring topology and Star topology?	1
	(iii)	How MAC address is different from IP address? Give example.	1
	(iv)	Name two threats to a Network?	1
	(v)	Expand the term (a) GSM and (b) FLOSS.	1
	(vi)	Write any one advantage and one disadvantage of Open Source Software over Proprietary Software?	2
	(vii)	Why Switch is known as intelligent HUB?	1
	(viii)	Name the device used to amplify signal over a long distance?	1

Q2	(a)	How Entry controlled loop is different from Exit Controlled loop?Give example.	2
	(b)	Name the method used to display password which is entered in a password field pwd?	1
	(c)	What will be an output of the following code:	1

String str="1020";

System.out.print("   "+str.length()+Integer.parseInt(str));

	(d)	What will be an output of the code given below:	1

int x=20;

int y=++x%3;

System.out.println("   "+x+"   "+y);

	(e)	Name the tag used in HTML for:	2
		(a) Inserting line break.	

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(b)   Inserting image in web page.

(f)   How HTML is different from XML?   1

(g)   Write the sample code to store the index value of item which is selected in a listbox list1   1
in a variable idx of datatype int.

(h)   How 'A ' is different from "A"?   1

(i)   Describe any two methods of ResultSet Class?   1

(j)   Name the method used to disable any radio button?   1

Q3   (i)   Mr Samual Created two tables T1 and T2. He already specified Primary key and foreign key.   1
When he wants to delete any record from T1 he gets an error message. Justify the reason.

(ii)   Write statement for the output return from the following query: 2

(a) SELECT ITEMNAME,PRICE FROM ITEM WHERE ITEMNAME LIKE '_ _d';

(b) SELECT ITEMNAME,PRICE FROM ITEM WHERE ITEMNAME LIKE 'S%';

(iii)   How Alternate Key is different from Candidate Key?   1

(iv)   Name the command used for the following: 2

(a) To end the transaction after saving all the changes.

(b) To remove all the changes made during transaction.

(v)   Mr Ramchandran created a table School. When he executes the command he gets 8 and 7 as   2
as output. Justify the reason?

(a)   SELECT   COUNT(*)   FROM   SCHOOL;

(b)   SELECT   COUNT(PNAME)   FROM   SCHOOL;

(vi)   Write command in MySQL to add a column COMM of data type float(9,2) in a tables SALES.   2

Q4   (a)   Define the following terms: 2

(i)   Class   (ii)   Interface   (iii)   Method   (iv)   Object

(b)   How abstract member is different from instance members in a class?   1

(c)   Rewrite the following code using switch case.   2

```
int mno=Integer.parseInt(textfield1.getText());
if(mno = = 1)
        System.out.println("JANUARY");
else if(mno = = 2)
        System.out.println("FEBRUARY");
else if(mno = = 3)
        System.out.println("MARCH");
```

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else if(mno = = 4)

     System.out.println("APRIL");

else

     System.out.println("INVALID MONTH NUMBER");

(d)   Write sample code to check whether item at 3rd position in a combobox is selected or not?   2

(e)   Given below the form for discount calculator:

Mode of payment	Rate of Discount
Cash	10%
Debit card	7%
Credit card	5%

Based upon the form given above write code for the following:

(i)   Write code for CALCULATE button to calculate discount, gross, service tax and   2
Net amount as per discount rate provided above.

(ii)   Write code for clear button to clear the contents of all the textfield.   1

(f)   What will be the output of the following code when combined with suitable   2
declarations and run?

StringBuffer city = new StringBuffer("Delhi");

StringBuffer string = new StringBuffer( );

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String.append(new String(city));

String.insert(0,"INDIA GATE");

System.out.println(string);

(g)   What do you mean by JDBC?   1

Q5   (a)   Write output of the following queries: 2

    (i)   SELECT SUBSTR("GLOBALIZATION",4,5);

    (ii)   SELECT LENGTH(CONCAT("NORMAL","WATER"));

    (iii)   SELECT MOD(232,5);

    (iv)   SELECT ROUND(763.395,2)+10;

(b)   A table SPORTS is created as per specification given below:

Column name	Constraint
Scode	Primary key
Sname	Default "Virat Kohli"
Match fees	
Match date	Date

    (i)   Write command to insert at least two records.   1

    (ii)   Identify the data type of Match fees column.   1

(c) Given below the table "INDUSTRY":   6

Table name: INDUSTRY

REG_NO	CEO	IND_TYPE	CITY	CAPITAL	DOR
R001	AKASH PATEL	CEMENT	RAJKOT	5000000	"2016-09-08"
R002	YASH SOLANKI	ELECTRONICS	MUMBAI	3300000	"2016-01-08"
R003	SAURABH MODI	MEDICINE	SURAT	2500000	"2016-10-19"
R004	HEENA CHAUDHARY	NULL	KOLKATA	4500000	"2016-07-20"
R005	MEET MODI	IRON	IMPHAL	4100000	"2016-12-08"

Based upon the table INDUSTRY write query in MySQL for (i) to (v) and output for (vi) .

(i) Display Reg_No, Ind_type, and city of Industries whose city is either Rajkot or surat or Kolkata.

(ii) Display detail of industries whose capital is more than 4000000 and less than 5500000.

(iii) Detail of industries which is registered before 12th Dec 2016.

(iv) Display sum and maximum of capital.

(v) Change the industry type medicine to drugs.

(vi) SELECT COUNT(IND_TYPE),AVERAGE(CAPITAL) FROM INDUSTRY;

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

Table: ACTORS

Column_Name	Data_Type(Size)	Constraint
ACT_Id	Int(20)	Primary Key
ACTOR_NAME	Varchar(20)	DEFAULT "NISHTA VERMA"
MOVIE	Varchar (40)	
CHARGES	FLOAT(9,2)	
GENDER	CHAR(5)	

(b)   Consider the table MOBILE AND COMPANY given below:

MOBILE

Mob_Code	SER_PROVIDER	Storage
M02	RELIANCE	4GB
M04	IDEA	8GB
M07	AIRTEL	16GB
M03	RELIANCE	2GB

Company

Mob_Code	CName	Cost
M07	NOKIA	12000
M02	SAMSUNG	15000
M04	MICROMAX	22000
M02	APPLE	15000

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

(i)   Display Mob_Code,CNAME and Cost of the mobile whose service provider is   2
RELIANCE.

(ii)   Display the detail of all Mobile and Company whose record is available in both   2
the tables.

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(iii)   What will be degree and cardinality of cross join of the two table.   2

Q7   (a)   Define E-Governance. Write name of any two popular E-Governance portals   2
of India ?

      (b)   Write any two advantage of E-Commerce?   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	
To enter encrypted characters	
To enter multiple line of text	
To select gender	