

CLASS XII SAMPLE PAPER INFORMATICS PRACTICES

INSTRUCTIONS :

- 1. This Question paper is contains 7 Questions and 10 Printed pages.
- 2. All parts of a question must be done in continuation
- 3. Answer the questions after carefully reading the text.
- Q1. Answer the following questions :

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(a) What is an IP address ? How it is different from a MAC address ? (2)

(b) Two neighborhood schools, at a distance of 120 meters from each other, decided 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 signals in between . Which device should they use so that the signal is amplified in between ? (1)
(c) Explain the difference between URL and Domain name with the help of an example ? (1)
(d) Which transmission media should be used to transfer data across two offices situated

- 10 kilometer far from each other? (1)
- (e) Define (a) Snooping (b) Eavesdropping . (1)

(f) Write two advantages and two disadvantages of following topologies . (i) Bus Topology (ii) Star Topology. (2)

(g) Expand the terms : OSI, FLOSS, FSF, GNU, GPL, W3C, OSS. (2)

Q2. Answer the following questions :

(a) Write a java method that takes an integer N as input parameter and displays the product of all the digits in the number.(2)

(for example if the number is 345 then the result should be 60 3x4x5.)

(b) What will be the value of x and y after execution of the following code: (1)

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(c) Explain the difference between HTML and XMl. (2)

(d) A phone number , consisting of 10 digits, is stored in a string variable strPhone. Now it is required to store this phone number in a Long type variable lngPhone. Write a java statement to do this. (1)

(e) Rajan has typed the following code :

int ch=Integer.parseInt(jTextField1.getText());
switch(ch)

{

case 1: jTextField2.setText("Service"); case 2: jTextField2.setText("Complain"); case 3: jTextField2.setText("Operator"); break; default: jTextField2.setText("Not a valid Entry");

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on entering the value 1,2 or 3, he is getting the same output. Mention the possible reason for the same. (1)

(f) See the following set of statements on the **STUDENT** table given below . Predict the output produced by statement no. 8. (2)

Rollno	Name	Address	Marks	Grade
1	Lalit	Laxmi Nagar	200	С
2	Amber	Shashtri Nagar	225	C+

- 1. Begin Work;
- 2. Select * from Student;
- 3. Delete From Student Where rollno=2;
- 4. Rollback Work;
- 5. Insert into student values(3,'Aman', 'KN Nagar',120,'D');
- 6. Delete From Student Where rollno=1;
- 7. Rollback Work;
- 8. Select * from Student;

(g) What will be the effect of executing the following code ? (1)

String s1= new String ("Vidhyashram"); String s2= new String ("Jodhpur"); s1=s1 + s2; System.out.print(s1);

- (i) S2 will be concatenated at the end of s1 and stored in s1.
- (ii) S1 will be concatenated at the end of s2 and stored in s1.
- (iii) S1 will be concatenated at the end of s2 and stored in s2.
- (iv) S2 will be concatenated at the end of s1 and stored in s2.

(h) What is the use of break and continue in a loop? Explain with the help of an example.

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(1)

Q3 Answer the following questions :

(a) What is the purpose of distinct clause? Explain with example.(2)

(b) Which command(s) is used to see the names of the tables present in a database named VIS . (1) (c)While creating a table 'Customer', Saloni forgot to set the primary key for the table. Give the statement which she should write now to set the column 'CustID' as the primary key of the table? (1)

(d) Aakansha wants to add a new column Marks (int(4)) to an existing table student. Write mysql command to do this. (1)

(e)The Table Qsales has following information in it. i.e.

Quarter	Sales
1	15000
2	NULL
3	5000
4	4000

Based on this, find the output of the following : (2)

(i)Select AVG(Sales) from QSales;

- (ii) Select Concat('Quarter', Quarter), Sales from QSales;
- (e) Explain the difference : (3)
- (i) Primary Key and Foreign Key.
- (ii) Single row Functions and Group Functions.
- (iii) Group By and ORDER BY.
- Q4. (a) Rewrite the following code using IF statement without effecting the output of the 15 code: (2)
 - int a=1:
 - switch (a)

{

case 1: System.out.print("Sunday');break;

case 2: case 3: case 4: case 5: case 6:System.out.print("WeekDay'); break;

case 7: System.out.print("Nearing Weekend"); break;

```
default : System.out.print("Wrong Number');
```

```
}
```

(b)How many times are the following loop executed? (2)

int num=5;

do{

System.out.println(num+1);

num--;

} while (num !=0);

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(c) Convert the following code using For loop without effecting the out put: (2)
int j=1,s=0;
while (j < 10)
{
    System.out.print(j);
    s = s + j;
    j + =3;
}
System.out.print(s);
(d)Explain the difference between <FONT> and <BASEFONT> Tag.
(e)Explain following tags : <A>, <IMG>.
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(f) Read the following case study carefully and answer the questions that follows -

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Vidhyashram International School decided to computerized its result making work. The Interface of the application is given below. The maximum marks for First term and Second term is 150 and for Half Yearly 300 and for Annual is 400. The maximum total marks is 1000. A weightage of 2 % should be given if a student is either a NCC cadet or a sports person.

🕌 Student Result		
Enter First Unit Marks		Stream
Enter Second Unit Marks		Science
Enter Half Yearly Marks		Commerce
Enter Annual Marks		
Total		NCC CADET
Percentage		
Grade		SPORTS
Calc Percentage	Calculate Grade	Clear Exit

The grading scheme for the different streams is as follows :



Stream	Marks	Grade
	> 85	A+
	70 to 85	А
Science	50 to 70	В
	40 to 50	С
	<40	D
Commerce	> 75	A+
	60 to 75	А
	50 to 60	В
	40 to 50	С
	<40	D

Initially the textfields totalTF, perTF, gradeTF and button gradeBTN should be disabled . (1)

- (i) On Clicking perBTN button, the total marks and Percentage should be calculated and displayed in respective textfields. (2)
- (ii) On Clicking gradeBTN button. The grade should be calculated and display in textfield. (2)
- (iii) On clicking of clearBTN command button , all textfields and checkboxes should be cleared and radio button for science should be set to default. (1)
- (iv) On clicking of exitBTN button, the application should be closed. (1)
- Q5. (a) Write CREATE TABLE command to create the table PRODUCT based on following 10 information : (2)

Field Name	Туре	Size	Constraint
Product_ID	Number	3	Primary Key
Pname	Varchar	20	Unique
Category	Varchar	10	Default ' Domestic'
Price	Number	5	Should be greater than 0
Stock	Number	3	Should be >0 and $<=1000$

(b)Write SQL commands for the statements (i) to (vi) and give outputs for SQL Queries (vii) to (x) (8) Table: CLUP

GCode	GameName	Number	Fees	StartingDate
101	Carom	2	5000	2004-01-23
	Board			
102	Badminton	2	12000	2003-12-12
103	Table	4	8000	2004-02-14
	Tennis			

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104	Chess	2	9000	2004-01-01
105	Lawn	4	25000	2004-03-19
	Tennis			

(i) To display the name of all games with their Gcodes.

(ii) To display details of those games which are having Fees more than 7000.

(iii)To display the content of the CLUB table in descending order of startDate.

(iv) To increase the fees of all games by 1000 rs.

(v) To List the minimum and maximum fees from CLUB.

(vi) To display total fees of each sports.

(vii) SELECT MAX(StartDate), MIN(StartDate) FROM CLUB;

(viii) SELECT COUNT(*) from CLUB where YEAR(StartDate)=2004;

(ix) SELECT FEES+100 from CLUB where GCode=105;

(x) Select GameName, Number* Fees AS " Total Fees" from club Where GameName Like 'C%';

Q6. (a) Predict the output: (2)

- (A) Select Round (1699.989,2);
- **(B)** Select Truncate (1699.989,-2);
- (C) Select DayofYear(curdate());
- (D) Select MID('Vidhyashram International School',-15,8);

(b) Consider the following tables **TEACHERS** and **SALARY**. Write SQL commands for the statements (i) and (ii) and give outputs for SQL queries (iii)and (iv).

TEAC	HERS	SALARY		
TID	NAME	DEPT	GENDER	EXP
101	Ajay Singh	Computers	Μ	11
104	Balvir Singh	Physics	Μ	5
107	Pooja Sharma	Mathematics	F	10
114	Monika Parihar	Chemistry	F	3
109	Rajan Sharma	Computers	Μ	9
105	Rajendra Kumar	Physics	Μ	10
117	P. Rathore	Accounts	Μ	3
111	Aarti Biswas	Computers	F	15

		1				
			TID	BASIC	ALLOWANCES	DA
(i)To d	isplay name and th	e total salary	101	12000	1000	300
receive	ed by each teacher.	(Total Salary =	104	23000	2300	500
Basic +	- allowances+DA)((1)	107	32000	4000	500
	, ,		114	12000	5200	1000
(ii)To (display name and D	OA of those	109	42000	1700	200
			105	19000	1600	300

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teachers who works in computer department and having exp more than 5 years and getting DA more than 500. (1)

(iii). Select Name, Dept, Basic from teachers , Salary Where Dept='Computers' and

Teachers.TID=Salary.TID; (1)

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(iv). Select Name, Basic + Allowances+DA As "Total Salary" from Teachers , Salary

Where Gender='M' and exp >5 and dept like 'C%' and Teachers.TID=Salary.TID; (1)

(c) Consider the tables **DOCTORS** and **PATIENTS** given below. Write SQL commands for (i) and (ii) and output for (iii).

	Patients						
DocI	DocI DocNam Departm OPD_D						
D	e	ent	ays				
101	M.Pande	ENT	TTS				
	У						
102	G.P.Gupt	Paed	MWF				
	a						
201	C.K.Shar	Ortho	MWF				
	ma						

Patno	PatName	Department	DocID
1	Sakshi	ENT	101
2	Shuchita	Ortho	201
3	Mehak	ENT	101
4	Divya	Paed	102
5	Madhav	Ortho	201

(i)Identify the foreign key in Patients table.(1)

- (ii) Display the Pat_No, Pat_Name and corresponding DocName for each patient. (1)
- (ii) Display the list of all patients whose OPD_Days are MWF. (1)

(iii) Select OPD_Days, COUNT(*) from Doctors, Patients where

Patients.department=Doctors.department Group By OPD_Days; (1)

- Q7. Answer the following questions :
 - (a) How does e-business improve customer satisfaction? Write one point. (1)
 - (b) How has our society benefited from e-governance? Write 2 points. (2)

(c) Mr. Devendra works for computer department. He wishes to create controls on a form

for the following functions. Choose appropriate controls from Text Field, Label, Option

Button, Check Box, List Box, Combo Box, Button and write them in third column. (2)

S.No. Control Used to Control

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1.	Enter last name	
2.	Select Gender	
3.	Choose City from a List of Choices	
4.	Submit Form	

This Question paper is strictly based on CBSE pattern. Question paper is given from entire syllabus. Use this for a good practice for your board exams. If find any difficulty, confusion, clarification or any discrepancy, pls feel free to message on my Number 09928206069 and mail on <u>hitesh.maheshwarimca@gmail.com</u>.

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