

CBSE Sample Paper

Sub -Informatics Practices

Class-XII M.Marks-70 Time- 3 hours

Note:

(i)

All questions are compulsory.

(ii) Answer the questions after carefully reading the text.	
1.(a) Why is a switch called an intelligent hub?	1
(b) What is the use of Repeater in a Network?	1
(c) Mr. Daya Shankar is planning in his office building to connect all computers, each spread over within distance of 50 meters. Sthe economical cable type having high speed data transfer rate which can be used to connect these computers.	Sugges 1
(d) Expand the following terms:	2
OSS, ODF, FLOSS, BOSS	
(e) Define any two threats to Network Security.	2
(f) Write two differences between MAN and WAN.	1
(h) What is MAC address? What is the difference between MAC address and an IP address?	2
2.(a) Write one example of an exit-controlled loop.	1
(b) Miss. Maonka wants to display "Study properly,after all this is your life" in a TextArea named lifeTA. Write the command in jav	a to do
(c) Write one difference between switch statement and else-if statement.	1
(d) What is difference between the use of JTextField and JTextArea in a form?	1
(e) Which property of palette jComboBox is used to enter the list of items while working in NetBeans?	1
(f) What will be the content of the jTextArea1 after executing the following code:	2
for (int i=2 ; i<4; i+=2)	
{ jTextArea1.setText(jTextArea1.getText() + " " + Integer.toString (i * i * i)); }	
(g) Write Java code that accepts value for a number (n) in jTextField1 and after finding factorial of it to be displayed in jTextField2.	2
(h) Write on difference between while loop and do…while loop.	1

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3.(a) Which command is used in MySQL to make the changes in database permanent?	1
(b) While creating a table-Master , Mayuri set Master_ID as primary key. Lather she found it is necessary to keep primary ke Give the statement which she should write to drop the primary key constraint from the table-Master.	y in the table. 1
(c) Give one characteristic of Foreign Key.	1
(d) A table – TEAMINFO has cardinality 13 and degree 7,how many numbers of rows present in the table?	1
(e) Write the output produced by the following MySQL commands?	2
(i) SELECT ROUND(543.5694,2),TRUNCATE(543.5694,2);	
(ii) SELECT LEFT("Examination",4),MID("Examination",6,3);	
(f) Distinguish between COMMIT and ROLLBACK.	2
(g) Mrs. Latika is using table-STUDENTS with following columns :	
RNO, NAME, DOB , ADDRESS	
She wants to delete all the names from the table-STUDENTS where 'K' is present as third character in the Column-NAME or is "1977-05-20".	whose DOB
4.(a) Define Data Encapsulation in context of Object Oriented Programming.	1
(b) What will be the content of jTextField1 after executing the following code:	2
int Jac=11;	
Jac = Jac - 10;	
if (Jac != 10)	
Jac= Jac - 1;	
jTextField1.setText(Integer.toString(Jac));	
else	
Jac= Jac - 1;	
jTextField1.setText(Integer.toString(Jac));	
(c) Rewrite the following programme code using if statement:	2
switch(no){	
case 0: Rs="Zero"; break;	

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case 10: Rs="Ten"; break;
        case 100: Rs="Hundred"; break;
         case 1000: Rs="Thousand"; break;
        default: Rsr="Not Valid" }
(d) Rewrite the following code segment using while loop:
                                                                                                                                         2
        for (int i=12; i>=0; i-=2)
        System.out.println(i);
(e) What will be displayed in jTextField1 and jtextField2 after the execution of the following code?
                                                                                                                                         2
                 int a,b,c;
                  a=25;
                  b=++a;
                  c = a + b + +:
                 jTextField1.setText(Integer.toString(c);
                 jTextField2.setText(Integer.toString(b);
(f) What will be the contents of S1 after the following code is executed?
                                                                                                                                         1
                  String S1,S2,S3;
                  S2="Calculative";
                  S3="Mind";
                  S1=S2.concat(S3);
(g) Miss. Anuja is a student of Class-XII. She created the following GUI in NetBaens. Help her to write code for the following:
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Clear

Squares

Exit

iTextArea2

Display

Numbers

¡TextArea1 -



(ii) To clear both text areas.	1
(iii) To terminate the application on the click of Exit button.	1
5. (a) What do you understand by primary key and candidate key.	1
(b) Write the output of following SQL queries. i. SELECT ROUND(6.88,2); ii. SELECT MID('Make your surrounding clean ',4,16); iii. SELECT DAYOFMONTH ('2014–11–12');	2

(c) Consider the table CRICKET given below . Write the commands in SQL for (i) to (iv) and output for (v) to (viii).

TABLE CRICKET

S.NO	PLAYER	AGE	CITY	RUNS	WICKETS
1	Sachin Tendulkar	39	Mumbai	15216	105
2	Virender Sehwag	37	Delhi	6244	82
3	M.S.Dhoni	32	Rachi	5219	
4	Rahul Dravid	37	Banglore	9325	11
5	Yuvraj Singh	32	Mumbai	8244	126

- (i) To display all the information about the players who not lived in Mumbai city
- (ii) To display Players name, age and runs who have scored more than 8000 runs and age above 35
- (iii) To display Player name and city of those players who have not taken any wickets
- (iv) To count the numbers of players of each city
- (v) Select Min(age) from Cricket;

iv. SELECT TRUNCATE (7.777,1);

- (vi) Select Max(runs)from cricket;
- (vii) Select Count(Distinct (city)) from cricket;
- (viii) Select Sum(Runs) from cricket where city="Mumbai";

SECTION-C

2

6 (a) Write a SQL command to create the table 'Passenger' with the following structure

TABLE:PASSENGER

Field Name	Filed Type	Constraint
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P_no	Varchar(8)	Primary Key
P_name	Varchar(25)	Not Null
Train _No	Integer(5)	
Age	Integer(3)	Not Null
Class	Varchar(8)	
Fare	Integer(4)	

(b)In the database ,there are two tables, "Customer" and "Bill" as shown below:

CUSTOMER

CUST_ID	C_NAME	CITY	PHONE
1	Ayush	Panipat	9812015367
2	Sanjay	Rohtak	9466623546
3	Rajeev	Sonepat	9616254447

BILL

Bill_No	Bill_Dt	Cust_ld	Bill_Amt
1	2010.11.05	2	2400
2	2010.08.10	1	1200
3	2010.09.07	3	1500
4	2010.12.23	1	1800
5	2010.10.17	2	2000

- 1. How many rows and columns will be there in the Cartesian product product of these two tables.
- 2. Identify the foreign key column in the table bill.

(c) Consider the tables Student and House given below: HOUSE

II CODE	LIQUICE NAME
H_CODE	HOUSE_NAME

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2

1+1



H1	VIRJANAND	
H2	SHARDHANANAD	
НЗ	DAYANAND	

STUDENT

ADM_NO	NAME	CLASS	H_CODE
1001	ANKITA	VII	H2
1002	RAHUL	IX	H1
1003	SAHIL	VII	H1
1004	ANUJ	X	НЗ
1005	DEEPTI	IX	H2

With reference to these tables, write commands in SQL for (i) and (ii) and output for (iii) given below 2+2+1

- (i) Display the Adm_No, Student Name and House name of the students of class VII.
- (ii) Count the numbers of student of SHARDHANANAD house
- (iii) Select House_Name, Count(*) from student,house where student.H_code=house.H_Code group by H_Code;

Q7 (a) How does e-governance help in reducing corruption? Write two points.

(b)What benefits E-business offers to the Customers?

2

(c) Anu work for a company. He wishes to create control on a for the following functions Choose appropriate controls from Textbox, Lable, Radio Button, Check Box, ListBox, Command Button and written in the third column.

S.NO	CONTROL USED TO	CONTROL
1	Enter Employee Name	
2	Gender	
3	Select Employee Type	
4	Submit the Form	

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