Solved Sample Paper – 2013 Class – XII Subject –Informatics Practices (065)

Note : All the questions are compulsory.

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1. (a) Differentiate between dedicated and non-dedicated server 2 **Dedicated Server** – it is a computer that is reserved to work only as a server on a network. The task of this Ans server is to help workstations access data, hardware and software over the network. Non-dedicated server – It is a server that performs function of both as a server and workstation simultaneously on a network. It requires good memory to manage the functioning of both. This type of server shares the resources on a small scale. (b) In the www.google.com URL, which of the following part represents the name of the website? 1 Ans google Compare bus and ring topology? 2 (c) Bus Topology – It is known as linear topology. On the behalf of single cable, all the computers are Ans connected. Ring Topology – It is known as circular topology. In this topology, each node is connected only to its two neighboring nodes through its two ends. (d) Do you prefer using switch over hub? If yes, why and in which circumstances? 2 Ans Yes, switch can be preferred over a hub in situations where there are no restriction on budget. It demands full usages of bandwidth and good communication speed. This can be illustrated on the basis of following reasons: 1. Both, hub and switch are used to connect multiple computers together but the speed of hub is very less as compared to that of switch. 2. The computers that are connected in a hub shares a bandwidth but the computers that are connected with switches communicate at full bandwidths. 3. Hubs are cheaper than switch. (e) Which of the following are open source LINUX, MS Window Vista, Python, MySQL, PageMaker. 1 Ans LINUX, Python, MySQL (f) What is ogg vorbis? 1 Ogg Vorbis is an open format for audio streaming. It is comparable to other digital formats that are used to Ans store and play digital music such as MP3, VQF, and AAC. What is font? Name the parameters on the behalf of it categories. (g) 1 Ans Font – Fonts refers to a group of printable and displayable text characters which have some particular style and size. Parameters are: 1. Technical specifications 2. Font configurations 2. (a) Name any two integer data type which store only integer value. 1 Ans Integer Data Types – byte, int, long, short What is the use of return statement in method.? (b) 1 Ans The use of return statement is used to return a value. What is the basic structure of HTML file? (c) 1 Ans <HTML> , <HEAD>, <TITLE>, <BODY> tags 2 (d) Difference between implicit and explicit type conversion. Ans Implicit Type Conversion – It is also called automatic conversion. This type of conversion is performed by the compiler. In this conversion data type is promoted. Explicit Type Conversion – The forced conversion of one data type into another is called as explicit conversion. It is a user-defined type conversion. What is an expression? Differentiate between Compound and Boolean/Relational Expression. 2 (e) Expression – It is a combination of variables, operators and constants. Ans www.cbseguess.com

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	Compound Expressions – Those expressions that are created by combining two or more simpl with the help of operators. Example : (x+y) * (u+v), (p>q) (q>r)	e expressions
	Boolean/Relational Expressions - The Boolean expressional is also called logical expression. The result in true or false.	ney either
(f)	Differentiate between Exit-Controlled Loop and Entry-Controlled Loop.	2
Ans	Entry-Controlled Loop – Those loops where condition is checked before entry in the body of lo Entry-Controlled loops. Example : While and for	oop, called 2
	Exit-Controlled Loop – The loop where condition is checked at the end of the loop, called Exit- Loop. Example: do-while	Controlled
(g)	Name two jump statements.	1
Ans	break, continue, return	
. (a)	Which command is used to display the list of existing tables?	1
Ans	Show tables.	
(b)	Wilson is creating a table in which he has created a column named city. In this column he may contain value. He is confused which keyword he should use. Help him.	y or may not 1
Ans (c)	Unique Difference between single row function and multiple row function.	2
(c) Ans	Single Row Functions – Those function which execute for every row of a table. Multuple Row Functions – Those function which execute for more than one row.	2
(d)	What is SQL? Write down its different categories with example also?	2
Ans	SQL stands for Structure Query Language. It is a relations data base management system.	
	1. DDL (Data Definition Langguage) – Alter Table, Drop Table, Create Table etc.	
	2. DML (Data Manipulation Language) – Insert, Delete, Update etc.	
(a)	3. TCL (Transaction Control Language) – Commit, Rollback, savepoint etc.	2
(e)	The City column of table 'Student' is given below-	2
	CITY	
	DELHI	
	JHAJJAR	
	MUMBAI	
	GOHANA	
	i. SELECT city from student where city LIKE = " %j%" ; Ans JHAJJAR	
	ii. SELECT city from student where city LIKE = " %A" ;	
	Ans GOHANA	
(f)	A table "FAMILY" in a database has 10 columns and no record. What is the degree and cardina	ality
	of this table? If five records can be added, then what is its degree and cardinality?	2
Ans	Situation 1 – Degree = 10 and Cardinality = 0	
<i>(</i>)	Situation 2 – Degree = 10 and Cardinality = 5	
(a)	What will be the contents of jTextField after executing the following statement? jTextField.setText ('B' + 'a')	1
Ans	This statement will display the error. Correct statement should be jTextField.setText ("B" + "a	
(b)	Predict the output for the following code. int I, n = 20;	2
	for(I = 1 ; I < n; n) {	
	System.out.print(i);	
	= + 2;	
	<pre>};</pre>	
Ans	1 3 5 7 9 11 13	
(c)	What is constructor. Give example.	2

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http://www.cbseguess.com/ less Constructor is a special function of a class whose name is same of its class. Ans **Class Student** { private int rl, marks; public Student() Ł rl = 10; marks = 90;} (d) Differentiate between Container and child control. 1 Child Control – Those control which work individually. They can't contain any other control. Ans Container Control – Those controls which contain other controls. Identify the errors and tell the output (jTF1 = 20, jTF2 = 10) 2 (e) (i) int m = integer.getInt(jTFI.getText() + jTFI.getText()); int m = Integer.parseInt(jTF1.getText() + jTF2.getText()); Ans JOptionPane.showMessageDialog(null, ""+(m+1)); (ii) JOptionPane.showMessageDialog(null , " "+ (m +1)); Ans What will be the value of A and B after execution of the following code? (f) 2 int A = 100, B; for(B=10; B<=12; B++) { A+=B; } JOptionPane.showMessageDialog(null, "A:" + A + "B:" + B + ""); Ans A:133 B:13

(g) Virus software Hut has developed the following Interface as shown below.

Virus S/w Hut					
Name of custome	r				
Bill amount					
O Cash	O Credit Card	O Cheque			
Cal	culate 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 make the TextFields for Discount & Net Amount in editable.

Ans discountTF.setEditable(false); netamountTF.setEditable(false);

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		I Bucco	
	ii.	Write code to "Calculate Discount" button as per given criteria and discount and net amount s displayed in TextField.	hould be 3
	Ans	private void calculatebuttonActionPerformed(java.awt.event.ActionEvent evt) {	
		double billamt=0.0;	
		double disc=0.0;	
		double net=0.0;	
		billamt=Double.parseDouble(billTF.getText());	
		if(billamt > 10000)	
		{	
		if(cashRB.isSelected())	
		disc=billamt*15/100;	
		if(creditcardRB.isSelected())	
		disc=0;	
		if(chequeRB.isSelected())	
		disc=billamt*10/100;	
		}	
		net=billamt-disc;	
		netamountTF.setText(" " + net);	
		discountTF.setText(" " + disc);	
		}	
	iii.	Write code for "Stop" button to close the interface.	1
	Ans	private void stopbuttonActionPerformed(java.awt.event.ActionEvent evt) {	
		System.exit(0);	
4.	(a)	} What do you understand by primary key and candidate key.	2
4.	(a) Ans	Primary Key – Which uniquely identify the records in a table.	2
	Alls	Candidate Key – It is a combination of all the columns which have the unique values and can se	rve as a
		primary key.	
	(b)	Write the output of following SQL queries.	2
	i.	SELECT ROUND(6.88,2) ;	-
	Ans	0	
	ii.	SELECT MID('Discovery Channel',4,6) ;	
	Ans	covery	
	iii.	SELECT DAYOFMONTH ('2011–03–30');	
	Ans	30	
	iv.	SELECT TRUNCATE (7.727,1);	
	Ans	7.7	

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(c) Consider the table STUDENT given below, write SQL Commands for (i) to (iv) and output for (v) to (viii)

RollNo	Name	Class	DOB	Sex	City	Marks
1	Nanda	Х	6/6/95	Μ	Agra	551
2	Saurabh	XII	7/5/93	Μ	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	Μ	Delhi	369
6	Marisla	XI	12/12/94	F	Dubai	250
7	Neha	Х	8/12/95	F	Moscow	377
8	Nishant	Х	12/6/95	Μ	Moscow	489

(i) To Display all information about class XII students.

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- Ans Select * from STUDENT where class = 'XII';
- (ii) List the name of male student of class X.
- Ans Select Name from STUDENT Sex='M' and class='X';

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- (iii) List names all classes of all students in descending order of DOB.
- Ans Select Class from STUDENT order by DOB desc;
- (iv) To count the number of student in XII Class of Mumbai city.
- Ans Select Class, count(*) from STUDENT where Class='XII' and City='Mumbai';
- (v) SELECT DISTINCT(Sex) FROM Student.
- Ans M F
- (vi) SELECT AVG(Marks) FROM Student GROUP BY Sex.
- Ans M = 467.75 F = 369.25
- (vii) SELECT COUNT(*)FROM Student where Class = 'XI'
- Ans 2
- (viii) SELECT MAX(Marks) FROM Student.
- Ans 551

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

Field	Туре	Constraints
BookID	Varchar (5)	Primary Key
BookName	Varchar (20)	
Author	Varchar (20)	
Price	Decimal (5, 2)	

Ans Create Table Books (BookID varchar(5) primary key, BookName varchar(20), Author varchar(20), Price Decimal(5,2));

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

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

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

i. Identify the foreign key column in the table COST.

2

2

1

1

1

1/2

1/2

1/2

1/2

2

- Ans There is no foreign key.
- ii. Check every value in EID column of both in table. Do you find any discrepancy.

Ans Yes because in the EID column in table COST value 1 is not match with the column EID in the table BOOK.

(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		

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T P04	Pencil	Natraj	2		
T P05	Sketch	Camel	2		
Client					

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	2
	(Both value included)	
Ans	Select * from Product where Price between 6 and 10;	
ii.	To display client name, city from table client and ProdName and price from table product.	2
Ans	Select CliName, City, ProdName, Price from Client, Product where Client. PID=Product.PI	D;
iii.	To increase the price of all products by 10. (Produce the output only)	2
Ans	Update Product set price=price+10;	
	Output is:	
	15	
	20	
	20	
	12	
	12	
What is	s front-end?	1
It is a s	oftware through which a user can interact directly i.e. netbeans java	
Give or	ne societal impact of e-business.	1
To buy	and purchase any item online.	
	orks for a Hotel. Sky warts to create controls on a form for the following function.	2
	annenrista controls from Taut Field Label, Dadia Dutton, Chask Day, List, Combo Day	

Choose appropriate controls from TextField, Label , RadioButton , CheckBox , List , ComboBox , Button and write in the third column.

S.No.	Controls use to	Control
1	Select room type	Radio Button
2	Enter customers name	TextField
3	Enter arrival date	TextField
4	To book reck	List

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6. (a) Ans (b) Ans (c)

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