

XII INFORMATICS PRACTICES

CBSE Board - 2012

[Maximum Marks: 70] [Time allowed: 3hours]

- Instructions (i) All questions are compulsory
 (ii) Programming Language: JOVO

1(a)	within 45 meters. Suggest an economical cable type having high-speed data transfer, which can be used to connect these computers.					
Ans.	Coaxial Cable					
(b)	Name two Indian Script included in UNICODE.	1				
Ans.	Devnagari, Bengali, Gurmukhi, Gujarati, Kannada, Malayalam, Oriya, Tamil, Arabic, Telugu					
(c)	Write examples of one Proprietary and one Open Source Software.	1				
Ans	Open source software: ✓ Linux ✓ My Sql Proprietary Software ✓ Microsoft Office ✓ Oracle					
(d)	Name any two most popularly used internet browsers.	1				
Ans.	✓ Firefox ✓ Internet Explorer					
(e)	Ms. Rani Sen, General Manager of Global Nations Corporate recently discovered that the communication between her company's accounts office and HR office is extremely slow and signals drop quite frequently. These offices are 125 meters away from each other and connected by an Ethernet cable. (i) Suggest her a device, which can be installed in between the offices for smooth communication. (ii) What type of network is formed by having this kind of connectivity out of LAN,MAN and WAN?	2				
Ans.	(i) Switch (ii) LAN					
(f)	Give an advantage of using Star topology over Bus topology. Show a network layout of star topology to connect 5 computers.	2				
Ans:	In star topology, Failure of one node or link doesn't affect the rest of network whereas in the bus topology, if the network cable breaks, the entire network will be down.					
(g)	Give suitable example of URL and Domain name.	2				
Ans:	URL - http://www.microsoft.com/en-in/default.aspx					
	Domain – Microsoft					

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ListBox and ComboBox. ComboBox. (b) What is the purpose of break keyword while using Switch Case Statement? Illustrate with the help of an example. Ans. **The purpose of Break statement is used to terminate the switch block statement.** **System.out.println("Excellent!"); **break;** **case 'B': System.out.println("Well done"); **break;** **case 'B': System.out.println("You passed"); **break;** **default: System.out.println("Invalid grade"); **break;** **default: System.out.println("Invalid grade"); **default: To println("Invalid grade"); **default: To provide hyperlink to a website http://www.cbse.nic.in" **Ans.** Ans. Anser-"http://www.cbse.nic.in">Ans. Anser-"http://www.cbse.nic.in">Anser-"http://www.cbse.nic.in">Anser-"http://www.cbse.nic.in">Anser-"http://w	2(a)	2(a) While making a Form in Netbeans, Mr. Harihar Jha wants to display a list of countries the users to select their own country. Suggest him to choose most appropriate control ou						
Ans. ComboBox. (b) What is the purpose of break keyword while using Switch Case Statement? Illustrate with the help of an example. Ans. 'The purpose of Break statement is used to terminate the switch block statement. switch (grade) {								
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System.out.println("Excellent!"); break; case 'B': System.out.println("Well done"); break; case 'D': System.out.println("You passed"); break; default: System.out.println("Invalid grade"); Write the name of HTML tag used to include numbered list in a HTML Web Page. 4. Ans. (d) Write HTML code for the following: To provide hyperlink to a website 'http://www.cbse.nic.in" Ans. www.cbse.nic.in" 4. Ans. 	Ans.	✓ The purpose of Break statement is used to terminate the switch block statement.						
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<pre>displayed in jTextField2. Ans. int n=Integer.parseInt(jTextField1.getText()); int cube=n*n*n; jTextField2.setText(""+cube);</pre>	Ans.	•						
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<pre>jTextField2.setText(""+cube);</pre>	Ans.	<pre>int n=Integer.parseInt(jTextField1.getText());</pre>						
3(a) Write MySal command to open an existing database								
	3(a)	Write MySql command to open an existing database.	1					

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Ans.	USE <database name="">;</database>							
(b)	Ms. Mirana wants to remove the entire content of a table "BACKUP" alongwith its structure to release the storage space. What MySql statement should she use?							
Ans.	DROP TABLE BACKUP;							
(c)	Give one difference between ROLLBACK and COMMIT commands used in MySql.							
Ans.	ROLLBACK COMMIT ✓ ROLLBACK command is used to end the current transaction and undo all the changes we made since the current transaction began. ✓ COMMIT command is used to make all the changes permanent to the underlying database which we made during the current transaction. ✓ Rollback is used to revert the last transaction in the Sql. ✓ Commit is used to save all the recent transactions.							
(d)	A table STUDENT has 4 rows and 2 columns and another table TEACHER has 3 row and 4 columns. How many rows and columns will be there if we obtain the Cartesian product of these two tables?	1						
Ans.	12 rows and 6 columns							
(e)	Mr. Sanghi created two tables with CITY as Primary key in Table1 and Foreign Key in Table2. While inserting a row in Table2, Mr. Sanghi is not able to enter a value in the column CITY. What could be the possible reason for it?	2						
Ans.	Mr. Sanghi was trying to enter the name of CITY in Table2 which is not present in Table1.							
(f)	Item code consisting of 5 digits is stored in an integer type variable intItemCode. Mr. Srikant wants to store this Item code in a String type variable called strItemCode. Write appropriate java statement(s) to help her in performing the same.	2						
Ans.	String strItemCode=Integer.toString(intItemCode);							
(g)	Mr. Janak is using a table with following columns: Name, Class, Course_Id, Course_name He needs to display names of students, who have not been assigned any stream or have been assigned Course_name that ends with "economics". He wrote the following command, which did not give the desired result. SELECT Name, Class FROM Students WHREE Course_name=Null OR Course_name="%economics"; Help Mr.Janak to run the query by removing the error and write the correct query.							
Ans.	SELECT Name FROM Students WHERE Course_name IS NULL OR Course_name LIKE '%economics';							
4(a)	What message will be displayed after the execution of the following code? int Age=64,Relaxation=4; int ModiAge=Age - Relaxation; if (ModiAge<60) jOptionPane.showMessageDialog(Null,"NOT eligible"); else jOptionPane.showMessageDialog(Null,"eligible");							
Ans.	eligible							
(b)	Rewrite the following program code using a If statement. int c=jComboBox1.getSelectedIndex();	2						

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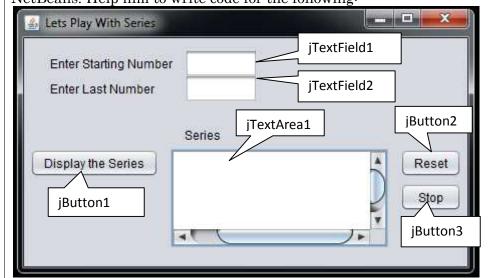


```
switch(c)
       {
            case 0 : Amount=Bill; break;
            case 1: Amount=0.9*Bill; break;
            case 2 : Amount=0.8*Bill; break;
            default : Amount=Bill;
      int c=jComboBox1.getSelectedIndex();
\mathbf{Ans}.
      if(c==0)
              Amount=Bill;
      else if(c==1)
               Amount=0.9*Bill;
      else if(c==2)
               Amount=0.8*Bill;
      else
                 Amount=Bill;
(c)
      How many times does the following while loop get executed?
                                                                                                        1
      int K=5;
      int L=36;
      while(K<=L)
          K+=6;
             // explanation: value of K 5,10,15,20,25,30,35 than it increased than L
Ans.
(d)
      What will be displayed in ¡TextArea1 after executing the following statement?
                                                                                                        1
      jTextArea1,setText("GREAT\n COUNTRY\tINDIA");
      GREAT
Ans.
      COUNTRY.....INDIA
      Note: (..... denotes the blank tab space given by \t dots will not display in output)
(e)
      What will be the values of variables 'm' and 'n' after the execution of the following code?
                                                                                                        2
      int P.Q=0;
      for(P=1;P<=4;P++)
         Q+=P;
         Q--;
Ans.
      This question is doubtfull, if we consider the question same as it is in question paper than this
      is an error because 'm' and 'n' variable is not used in code istead of 'm' and 'n', 'P' and 'Q' is used
       whch will give error of variable not found.
      And if we consider as it is printing mistake in place of 'm' and 'n', we take 'P' and 'Q' then
      output will be
      P is 4
      Q is 6
      Given a string object named Pay having value as "68000" stored in it. Obtain the output of the
(f)
      following:
      JOptionPane.showMessageDialog(null,
      ""+Salary.length()+Integer.parseInt(Salary));
      568000 // explanation length and Salary is concatenated with "which represent blank string,
\mathbf{Ans.}
                so they are not calculated as number.
```

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Janav Raj is a programmer at Path Educo Enterprises. He created the following GUI in NetBeans. Help him to write code for the following:



To display series of odd or even number (depending on Starting Number-jTextField1 is even or i. odd) in the jTextArea on the click of command button [Display The Series].

For example:

If the Start Number is 5 and Last Number is 11

Text Area Content will be

```
5 7 9 11
```

If the Start Number is 2 and Last Number is 10

Text Area Content will be

```
2 4 6 8 10
```

- To clear both the text fields and text area, on clicking [Reset] button. ii.
- iii. To terminate the application on the click of [stop] button. (Assume suitable names for the various controls on the Form)

1

```
Ans.
        i.
              int num1=Integer.parseInt(startTextField.getText());
              int num2=Integer.parseInt(stopTextField.getText());
              seriesTextArea.setText(null);
              if((num1 % 2)==0)
                  for(int i=num1;i<=num2;i=i+2)</pre>
                       seriesTextArea.append(i+" ");
              else
                  for(int i=num1;i<=num2;i=i+2)</pre>
                       seriesTextArea.append(i+" ");
```

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	<pre>ii. seriesTextArea.setText(null);</pre>							
	startTextField.setText(null);							
	<pre>stopTextField.setText(null);</pre>							
	<pre>iii. System.exit(0);</pre>							
5(a)	What is the purpose of ORDER BY clause in MySql? How is it different from GROUP BY clause?							
Ans.								
(b)	Table SCHO	OL has 4 rows a	and 5 columns. V	What is the	Cardinality and D	Degree of this tab	ole? 1	
Ans.	Cardinality :	= 4 and Degree :	= 5					
(c)	Consider the (v) to (vii) Table SHOPPE Code		E given below. W	Trite comma	and in MySql for (i	l) to (iv) and outp	out for 7	
	102	Biscuit	Hide & Seek	100	Delhi	10.00	-	
	102	Jam	Kissan	110	Kolkata	25.00	_	
	103	Coffee	Nestle	200	Kolkata	55.00	-	
	106	Sauce	Maggi	56	Mumbai	55.00	-	
	107	Cake	Britannia	72	Delhi	10.00	-	
	104	Maggi	Nestle	150	Mumbai	10.00	-	
	105	Chocolate		170	Delhi	25	_	
 i. ii. iv. v. vi. Ans. i. ii. iv. v. 	To display names of the items whose name starts with 'C' in ascending order of Price. To display code, Item name and City of the products whose quantity is less than 100. To count distinct Company from the table. To insert a new row in the table Shoppe '110', 'Pizza', 'Papa Jones', 120, 'Kolkata', 50.0 Select Item from Shoppe where Item IN("Jan", "Coffee"); Select Count(distinct(City)) from Shoppe; Select MIN(Qty) from Shoppe where City="Mumbai"; SELECT Item FROM SHOPPE WHERE Item LIKE 'c%' ORDER BY Price; SELECT Code, Item, City FROM SHOPPE WHERE Qty<100; SELECT COUNT(DISTINCT(Company)) FROM SHOPPE; INSERT INTO SHOPPE VALUES (110, 'Pizza', 'Papa Jones', 120, 'kolkata', 50. Item Jam						1 1 1 1 1 1	
vi.	Coffee 3							

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	MIN (QTY 56									
3(a)		mmand to one	ot the Table	CTOCK in alud	ing ita Canat	mainta				
(a)	Write a MySql command to creat the Table STOCK including its Constraints. Table STOCK:									
	Name of Column	Tyne	Туре			Contraint				
	Id	Decin	าลไ	Size 4		Primary Key				
	Name		Varchar			111111ary recy				
	Company		Varchar							
	Price		Decimal			Not Null				
Ans.	CREATE TABLE S				Z , Name VA	ARCHAR(20) , Compan	У			
b)	In a database ther									
,D)	In a database ther	re are two ta		able ITEM:						
	ICode	Iname		Price						
	101	Television	1	75000						
	202	Computer		42000						
	303	Refrigera		90000						
	404	Washing		27000						
	101	wasiiiig		ble BRAND:						
		ICode		Brand						
		101		Sony						
		202	v							
		303	1	LG						
	404		1	IFB						
		101	Write MySql queries for the following:							
	Write MySql queri			ПВ						
		ies for the fo	llowing:							
		ies for the fo	llowing:		f those Items	, whose price is between				
	(i) To display I	ies for the fo	llowing:	onding Brand o	f those Items	, whose price is between				
	(i) To display IO 20000 and 4	ies for the fo Code,IName 5000 (both v	llowing: and correspo alues inclusi	onding Brand o		- -				
	(i) To display Io 20000 and 4 (ii) To display Io	ies for the fo Code,IName 5000 (both v Code, Price a	llowing: and correspo alues inclusi and BName o	onding Brand on ve). of the item which		, whose price is between as "Television"?				
	(i) To display IO 20000 and 4	ies for the fo Code,IName 5000 (both v Code, Price a	llowing: and correspo alues inclusi and BName o	onding Brand on ve). of the item which		- -				
Ans.	(i) To display Io 20000 and 4 (ii) To display Io (iii) To increase	ies for the fo Code,IName 5000 (both v Code, Price a the price of a	llowing: and correspo alues inclusi and BName o all the Items	onding Brand on ve). of the item whice by 15%.	h has IName	e as "Television"?				
Ans.	(i) To display Io 20000 and 4 (ii) To display Io (iii) To increase	ies for the for Code,IName 5000 (both v Code, Price a the price of a	llowing: and corresponding alues inclusioned BName of the Items Brand.Brand	onding Brand on ve). of the item which by 15%.	h has IName	- -				
Ans.	(i) To display Io 20000 and 4 (ii) To display Io (iii) To increase (i) Select Item.IO Item.Price Ber	ies for the for Code,IName 5000 (both v Code, Price a the price of a Code,IName,I tween 20000	llowing: and corresponding and BName of the Items Brand.Brand AND 45000	onding Brand or ve). of the item whice by 15%. I from Item,Bra ;	th has IName	e as "Television"? m.icode=brand.icode and				
Ans.	(i) To display Io 20000 and 4 (ii) To display Io (iii) To increase (i) Select Item.IO Item.Price Ber (ii) Select Item.IO	ies for the for Code,IName 5000 (both v Code, Price a the price of a Code,IName,I tween 20000 Code,Price,Br	and corresponding and BName of the Items Brand.Brand AND 45000	onding Brand or ve). of the item whice by 15%. I from Item,Bra ;	th has IName	e as "Television"?				
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Ans.	(i) To display Io 20000 and 4 (ii) To display Io (iii) To increase (i) Select Item.IO Item.Price Ber (ii) Select Item.IO	ies for the for Code, IName 5000 (both v Code, Price a the price of a Code, IName, tween 20000 Code, Price, Brike 'Television	and corresponding and BName of the Items Brand.Brand AND 45000 and.Brand fron';	onding Brand on ve). of the item which by 15%. I from Item,Brand from Item,Brand	th has IName	e as "Television"? m.icode=brand.icode and				
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	(i) To display Io 20000 and 4 (ii) To display Io (iii) To increase (i) Select Item.IO Item.Price Ber (ii) Select Item.IO Item.Iname Lo (iii) UPDATE ITE	ies for the for Code,IName, 5000 (both v Code, Price a the price of a Code,IName, tween 20000 Code,Price,Brike 'Television	and correspondings and BName of the Items Brand.Brand AND 45000 and.Brand fron'; e=Price+(Price)	onding Brand on ve). of the item which by 15%. I from Item,Brand from Item,Brand	th has IName	e as "Television"? m.icode=brand.icode and				
	(i) To display IO 20000 and 4 (ii) To display IO (iii) To increase (i) Select Item.IO Item.Price Bet (ii) Select Item.IO Item.Iname L (iii) UPDATE ITE Given below is a T	ies for the for Code,IName, 5000 (both v Code, Price a the price of a Code,IName, tween 20000 Code,Price,Brike 'Television IM SET Price Cable Patient	and corresponding and BName of the Items Brand.Brand AND 45000 and.Brand fron'; =Price+(Price)	onding Brand or ve). of the item which by 15%. I from Item,Brand; from Item,Brand; ce*15/100);	th has IName	e as "Television"? m.icode=brand.icode and				
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(c)	(i) To display Io 20000 and 4 (ii) To display Io (iii) To increase (i) Select Item.IO Item.Price Ber (ii) Select Item.IO Item.Iname L (iii) UPDATE ITE Given below is a T Name Vimal Jain Ishita Kohli Vijay Verma Vijay Verma Identify Primary Io	Code, IName, 5000 (both v. Code, Price a the price of a code, IName, Itween 20000 Code, Price, Brike 'Television Pale Patient P_No P0001 P0012 P1002 P1567	and corresponding and BName of alues inclusion and BName of all the Items Brand.Brand AND 45000 and.Brand fron'; =Price+(Price-(Price	onding Brand of ve). of the item which by 15%. I from Item,Brand of the item which item, and item, and item, are item, and item, and item are item, and item, and item, are item, and item, and item, are item, and item, and item, are item, are item, and item, are item, and item, are it	nd where ite	as "Television"? m.icode=brand.icode and .icode=brand.icode and	l			

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7(a)	What social impact does e-Governance have on society?							
Ans.	 ✓ 'E-governance' programs have improved the efficiency of administration and service delivery. ✓ People have also benefitted from e-governance in the form of reduced cost of availing the services. 							
	✓ E-governance has proved successful in keeping a tab on corruption to some extent.							
(b)	Write two important feature of e-Business. Give two most commonly used e-Business sites.							
Ans.	Feature of e-Business:							
	i. Offers opportunity to increase sales							
	ii. Offer opportunity to access new market across the globe							
	iii. Allows 24 x 7 access to the firm's products and services							
	iv. Reduce inventory							
	v. Improves speed of response							
	Few most commonly used e-Business sites are –							
	i. <u>www.licindia.com</u>							
	ii. <u>www.statebankofindia.com</u>							
	iii. <u>www.amazon.com</u>							
	iv. <u>www.ebay.com</u>							
	v. <u>www.sharekhan.com</u>							
	vi. <u>www.westernunion.com</u>							
(c)	Mr. Anurag Dag working as Managar in Vivian Entarprises wants to areate a form in Nat Ro	ans 2						
(0)	Mr. Anurag Das working as Manager in Vivian Enterprises wants to create a form in NetBeans to take various inputs from user. Choose appropriate controls from Label, TextBox, Radio							
	Button, CheckBox, ListBox, ComboBox & Command Button and write them in the third							
	column:							
	SNO Control used to Control							
	1. Enter Name, Address and Salary							
	2. Select Gender (Male / Female)							
	3. Select Department from available List							
	Choose Hobby of Employee							
	(Singing/Dancing/Skating/Swimming)							
Ans.	1. TextBox							
	2. Radio Button							
	3. ComboBox							
	4. CheckBox							

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