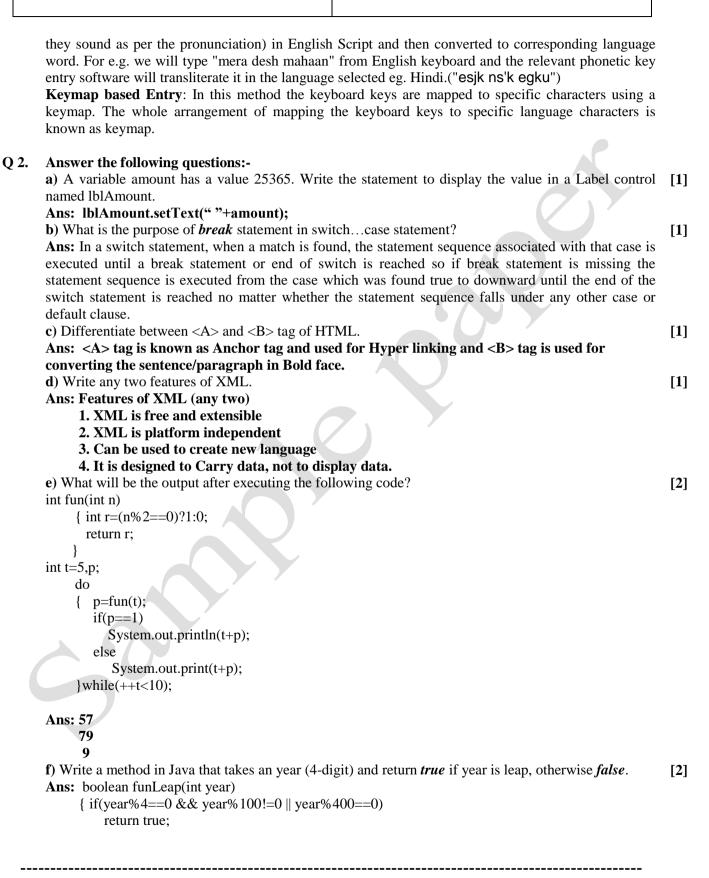


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Time	e: 3 hrs. M.M. 70	
Note:	All questions are compulsory.	
	Marks are allotted against each question.	
Q 1.	Answer the following questions:-	
-	a) Mr. Abhinav wants to implements a network using less cable length and data should be transmitted	[2]
	in one direction only. Name the topology and direction of data transmission.	
	Ans: Ring/Circular Topology and Anti-Clock wise	
	b) Explain the uses of the following devices in networking-	[2]
	i) Switch ii) Repeater	
	Ans:	
	i) Switch: A switch is responsible for filtering data in a specific way and for forwarding packets	
	between LAN segments.	
	ii) Repeater: It is a network device that amplifies and restores the signals for long distance	
	transmissions.	
	c) What do you mean by Communication Channel? Name any two.	[2]
	Ans: Transmission Media (Communication Channels): The cable that connects two or more	
	nodes is the communication channels. It can be categories in two types- Guided (Wired	
	Technology) & Unguided (Wireless Technology). Eg. Twisted Pair Cable (Ethernet Cable),	
	Coaxial Cable, Optical Fibers, Microwave, Radio Wave, Satellite, Infrared, Bluetoothd) Ms. Kiran has downloaded software from internet. It can be distributed and freely used by any one.	[1]
	Source code is not available. Name the software downloaded by her.	[1]
	Ans: Freeware	
	e) Write any two preventive measures for network security.	[1]
	Ans: Preventive Measures for network security-(any two)	[1]
	• Implement proper security policy for your organization	
	 Use proper file access permissions when sharing files on Internet Disconnect from the Internet when away 	
	• Disconnect from the Internet when away f) Write any two advantages of open standard.	[1]
	Ans: Advantages of Open Standards-(any two)	[1]
	a)Making the data accessible to all	
	b) Application and platform independent	
	c)No hidden information	
	d)Diversity and interoperability in the industry	
	e)Offers diverse choice for users	
	g) Differentiate between Phonetic Text Entry and Key map based Entry of Indian language text.	[1]
	Ans: Phonetic Text Entry (Transliteration): In this type of text entry, traditional keyboards with	r -1
	English keys are used. But while typing, the Indian alphabets are written phonetically (i.e., the way	

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	else					
	return false	2:				
	}	,				
	g) What are the uses	of the following ta	gs:-			[2]
	<hr/> HTML>, <sup< td=""><td></td><td>6</td><td></td><td></td><td>L-1</td></sup<>		6			L-1
	Ans: <html> - Ider</html>		ument is a H'	TML documer	nt.	
		ys the text in supe				
		s text in Heading f			size)	
		specify table row,				
3.	a) If a database "Libr	ary" exists. Write	the command	d to start work	ing in this database.	[1]
	Ans: USE Library;					
			•	· ·	key for the table. Write the statement	[1]
	to set the column Mo					
	Ans: ALTER TABL					
					e the OPDCharge by 25% of	[1]
	"Nephro" and "Cardi					
					lepartment IN ('Nephro', 'Cardio');	
					and write corrected query.	
			rge= <u>OPDC</u>	<u>narge + OPD</u>	Charge *0.25 WHERE department	
	IN ('Nephro','Cardi		da during the	transaction	vacution What command should	[1]
	Abhi use for this purp		ue during the	transaction ex	ecution. What command should	[1]
			anles on les est	OF STADT T	DANGACTION /DECIN commond	
	is issued)	(KULLDACK W	orks only wi	IEII START T	RANSACTION /BEGIN command	
	e) Identify the candid	ate $key(s)$ in the f	ollowing tabl	0		[2]
	Relation: Data	ate key(3) in the h	Showing tabl	с.		[4]
	EmpNo					
	Name					
	Designation					
	MobileNo					
	PANCardNo					
	Salary					
	BankAccour	nt No.				
	Ans: EmpNo, Mobil		o BankAcco	untNo		
					" are given below-	
	f) GarCode GarNam		oue or tuore		are given seron	[2]
	f) GarCode, GarNam					[2]
	GarCode	GarName	Price	FabrCode		[2]
	GarCode 10015	GarName Informal Pant	Price 1899	FabrCodeF02		[2]
	GarCode 10015 10089	GarName Informal Pant Formal Pant	Price 1899 1295	FabrCode F02 F01		[2]
	GarCode 10015 10089 10075	GarName Informal Pant Formal Pant Shirt	Price 1899 1295 690	FabrCode F02 F01 F01		[2]
	GarCode 10015 10089 10075 10036	GarName Informal Pant Formal Pant Shirt Frock	Price 1899 1295 690 690	FabrCode F02 F01 F01 F04		[2]
	GarCode 10015 10089 10075 10036 Based on this information	GarName Informal Pant Formal Pant Shirt Frock ation, find output o	Price 1899 1295 690 690 of the following	FabrCodeF02F01F01F04ng queries.	т.	[2]
	GarCode 10015 10089 10075 10036 Based on this informa a) SELECT CO	GarName Informal Pant Formal Pant Shirt Frock ation, find output o UNT(Distinct Fab	Price 1899 1295 690 690 of the following orCode)) FRC	FabrCodeF02F01F01F04ng queries.DM GARMEN		[2]
	GarCode 10015 10089 10075 10036 Based on this informa a) SELECT CO b) SELECT Gar	GarName Informal Pant Formal Pant Shirt Frock ation, find output o UNT(Distinct Fab	Price 1899 1295 690 690 of the following orCode)) FRC	FabrCodeF02F01F01F04ng queries.DM GARMEN	T; de NOT LIKE'_1';	[2]
	GarCode 10015 10089 10075 10036 Based on this informa a) SELECT CO b) SELECT Gat Ans: a) 3	GarName Informal Pant Formal Pant Shirt Frock ation, find output of UNT(Distinct Falt Name FROM GA	Price 1899 1295 690 690 of the following orCode)) FRC	FabrCodeF02F01F01F04ng queries.DM GARMEN		[2]
	GarCode 10015 10089 10075 10036 Based on this informa a) SELECT CO b) SELECT Gar Ans: a) 3 b) Informal Pa	GarName Informal Pant Formal Pant Shirt Frock ation, find output of UNT(Distinct Falt Name FROM GA	Price 1899 1295 690 690 of the following orCode)) FRC	FabrCodeF02F01F01F04ng queries.DM GARMEN		[2]
	GarCode 10015 10089 10075 10036 Based on this informa a) SELECT CO b) SELECT Gat Ans: a) 3	GarName Informal Pant Formal Pant Shirt Frock ation, find output of UNT(Distinct Falt Name FROM GA	Price 1899 1295 690 690 of the following orCode)) FRC	FabrCodeF02F01F01F04ng queries.DM GARMEN		[2]

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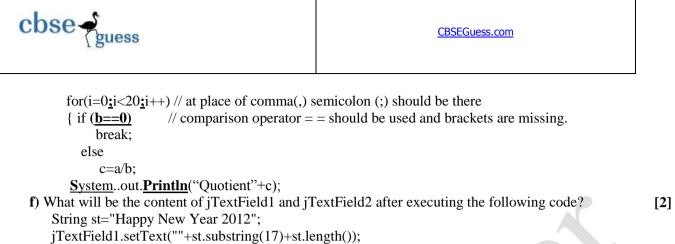


	g) What is the role of UNIQUE constraint? How is PRIMARY KEY constraint different from	[2]
	UNIQUE constraint?	
	Ans: UNIQUE constraint works same as Primary Key constraint but,	
	UNIQUE Attribute can be NULL but PRIMARY KEY can not be NULL.	
	UNIQUE can be assigned to many attribute but PRIMARY KEY can be assigned to one	
	attribute only in a table.	
Q 4.	a) What is method overriding?	[1]
	Ans: A method in a sub class hides or overshadows a method inherited from the super class if	
	both methods have the same signature. This property is known as overriding the inherited	
	method.	
	b) What is the difference between setEnabled and setVisible methods of a control?	[1]
	Ans: setEnabled method makes the control accessible or inaccessible but control displays on	
	screen whereas setVisible method makes the control visible or invisible on the screen	
	c) Write the purpose of the following statements.	[1]
	i) jTextField1.setText("Value"+Math.round(-11.5)); ii) final double g=9.8;	
	Ans: i) It will round off the number and display in text field1 – Value -11	
	ii) It will declare a constant g with initial value 9.8	
	d) Rewrite the following code using ifelse.	[2]
	switch(ch) {	
	case 'a':	
	case 'A':	
	case 'e':	
	case 'E':	
	case 'i':	
	case 'I':	
	case 'o':	
	case 'O':	
	case 'u':	
	case 'U': ++v;	
	break;	
	default: others++;	
	}	
	Ans:	
	$if(ch=='A' \parallel ch=='a' \parallel ch=='E' \parallel ch=='e' \parallel ch=='I' \parallel ch=='i' \parallel ch=='O' \parallel ch=='o' \parallel ch=='U' \parallel ch=='u')$	
	++v;	
	else	
	others++;	
	e) The following code has some error(s). Rewrite the correct code underlining all the corrections made.	[2]
	int i,c,a=5,b=0;	
	for(i=0,i<20,i++)	
	{ if b=0 then	
	break;	
	else	
	c=a/b;	
	system.out.show("Quotient"+c);	
	Ans: int i,c,a=5,b=0;	

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jTextField2.setText(st.substring(6).trim());

Ans: jTextField1 will contain 1219 and jTextField2 will contain New Year 2012
g) Dream Land Enterprises has computerized its billing. The following data entry screen is used to generate bill.

🕌 Dream Land Enterprises	
Product ID Product Description Quantity	Category of City A Class B Class C Class
Unit Price	Company Employee
Sub Total	Calculate
Тах	Clear
Delivery & Handling Charges	
Total	Exit

The criteria for calculation of delivery and handling charges is as given below-

Category of City	Charges
A Class	Rs. 3500
B Class	Rs. 4000
C Class	Rs. 4500

I. Write the code to make the text fileds **txtSubTotal**, **txtTax**, **txtDelHanCh** and **txtTotal** non editable and set the category of city as C class.

- II. Write code to do the following
 - a) Write the code for **Calculate** button to calculate and display Sub Total, Tax, Delivery & Handling Charges and Total depending on the category of the city.
 - Sub Total is calculated as **Unit Price * Quantity**.

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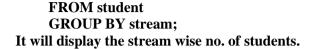


[2]

	0	Tax is calculated as 7.85% of Sub Total
	o	Total is calculates as the sum of Sub Total, Tax and Delivery and Handling Charges. If
		Company Employee check box is checked then tax should be 2.5%.
b)	When C	Clear button is clicked all the text boxes should be clear and Close the application when
	Exit bu	tton is pressed.
Ansel	f tytSub	Total.setEditable(False);
Alls. I		setEditable(False);
		HanCh.setEditable(False);
		l.setEditable(False);
		lass.setSelected(True);
т	-	le for Calculate Button
1	,	ble qty,unitPrice, tax, subtotal, dhCharges,total
		=Double.parseDouble(txtQuantity.getText());
		tPrice=Double.parseDouble(txtUnitPrice.getText());
		total= qty* unitPrice;
		hkCompEmpl.isSelected()==True)
	,	tax=subtotal*(2.5/100);
	else	
		tax= subtotal *(7.85/100);
	if(o	ptAClass.isSelected()==True)
		dhCharges=3500;
	if(o	ptBClass.isSelected()==True)
		dhCharges=4000;
	if(o	ptCClass.isSelected()==True)
		dhCharges=4500;
		ll=subtotal+tax+dhCharges;
		SubTotal.setText(" "+subtotal);
		Fax.setText(" "+tax);
		DelHanCh.setText(" "+dhCharges);
		Fotal.setText(" "+total);
b) (· Clear Button-
		Quantity.setText("");
		Quantity.setText(" ");
		SubTotal.setText(" ");
		Fax.setText(" "); Dollar of the setText(" ");
		DelHanCh.setText(" ");
	txt	Fotal.setText(" ");
	447	Or Fotol sotToyt(null): //null con also he used
C		Fotal.setText(null); //null can also be used. Exit Button-
L		tem.exit(0);
	əys	ונווו.דאונט,

Q 5. a) Explain the need of GROUP BY clause in SELECT query with example. Ans: GROUP BY clause is used to group all those records that have identical values in a particular field or a group of fields (attribute). Eg. SELECT stream, Count(*)

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- **b**) Write output of the following SQL queries :
 - i) SELECT DAYOFMONTH('2010-12-23');
 - ii) SELECT TRUNCATE(170,-2);

uess

- iii) SELECT INSTR('Coordination ','o');
- iv) SELECT CONCAT('India', NULL,'Australia');

Ans: i) 23

cbse-

- ii) 100
- iii) 2
- iv) NULL

c) Consider the table given below, write command in SQL for (1) to (4) and output for (5) to (8). Table : STUDENT

	Table . STODENT						
No	Name	Stipend	Stream	AvgMark	Grade	ClassSec	
1	Karan	800	Medical	67.8	С	11D	
2	Vishu	1500	Commerce	82.6	В	12B	
3	Prabhat	2000	Humanities	85.7	В	12J	
4	Selina	700	Medical	88.9	А	11C	
5	Vinod	900	Science	65.9	С	11D	
6	Karan	1200	Medical	68.6	D	12J	

(1) To display the name and stream of all students who are in class 12.

- (2) To display the different Streams available for students.
- (3) To display name, avgmarks and grade in ascending order of grade.
- (4) To display names of those students whose grade and section are same.

(5) SELECT Stipend+500 FROM Student WHERE stream LIKE '% ma%';

(6) SELECT COUNT(*) FROM Student WHERE grade='C' OR stipend =800;

(7) SELECT ClassSec FROM Student WHERE Avgmark>68 && stream='Medical';

(8) SELECT AVG(stipend) FROM Student WHERE name='Karan';

Ans: (1) SELECT name, stream

FROM student

WHERE classSec LIKE '12%';

Or

SELECT name, stream

FROM student

WHERE LEFT(classSec,2)='12';

- (2) SELECT DISTINCT stream FROM student;
- (3) SELECT name, AvgMark, Grade FROM student ORDER BY Grade ASC;
- (4) SELECT name FROM student

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[2]

[6]



WHERE RIGHT(classSec,1)=Grade;

- (5) 2500
- (6) 2
- (7) **11C**
- 12J
- (8) 1000
- **Q 6.** Answer the following question.

a) Write an SQL query to create the table "Club" with the following structure-

Field	Туре	Constraint
CoachId	Integer(6)	Primary Key
CoachName	Varchar(25)	Not NULL
Age	Integer(3)	Must be more than 35
Sports	Varchar(20)	
Pay	Integer(8)	
Sex	Char(1)	

Ans:

CREATE TABLE club (CoachId INT(6) PRIMARY KEY, CoachName Varchar(25) NOT NULL, Age INT(3) CHECK Age>35, Sports Varchar(20), Pay INT(8), Sex Char(1));

1

b) In a database there are two tables 'Doctors' and 'Patients' shown below-

Table: Doctors						
DId	DName	OPDDays	Timing			
D521	R. K. Sinha	Monday	10 am			
D324	V. K.Singha	Wednesday	9 am			
D945	P. Kumar	Friday	12 pm			
D457	V. Prasad	Saturday	10 am			
D125	K. Krishna	Tuesday	11 am			
D220	M. Kumar	Monday	12 pm			

Table: **Patients**

PId	Name	Age	Dept	DateOfAdm	Charges	Gender	DId
115	Jugal	36	Nephro	2005-12-15	260	М	D324
621	Smita	45	Cardiology	2007-07-20	450	F	D945
451	Reena	14	ENT	Null	Null	F	D457
136	Kishor	64	Surgery	2001-08-28	850	М	D521

i) Name the column(s) that can be used to retrieve data from both the tables.

ii) Identify the Primary key and Foreign Key attributes from both the tables.

Ans: i) DId (from Doctors and Patients table)

- ii) PId Primary Key (Patient Table)
 - DId- Foreign Key (Patient Table)
 - DId- Primary Key (Doctors Table)

c) Consider the tables given below-

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[2]

[1]

Table : Staff							
StaffId	Name	Dept	Gender	Experience			
1125	Noopur	Sales	F	12			
1263	Kartik	Finance	М	6			
1452	Palak	Research	F	3			
236	Nayan	Sales	М	8			
366	Anvashan	Finance	М	10			
321	Sawan	Sales	М	7			

Table : Salary

Tuble - Sulary									
StaffId	Basic	Allowance	CommPer						
1125	14000	1500	9						
1263	25000	2800	6						
236	13500	1400	5						
321	12000	1500	5						
366	26100	3100	12						

With reference to above tables, write commands in SQL for (i) and (ii) and output for (iii)-

- (i) To display name of all the staff that are in Sales having more than 9 years experience and commission percentage is more than 8.
- (ii) To display average salary of staff working in Finance department. (Salary=Basic+allowance)
- (iii) SELECT name, Basic from Staff, Salary WHERE Dept='Sales' and Staff.StaffId=Salary.StaffId;
- Ans: i) SELECT Name

FROM Staff, Salary WHERE Dept='Sales' AND Experience>9 AND CommPer>8 AND Staff.StaffId=Salary.StaffId;

 ii) SELECT AVG(Basic+Allowance) AS "Average Salary" FROM Staff, Salary WHERE Staff.StaffId=Salary.StaffId AND Dept='Finance';

- iii) Noopur 14000 Nayan 13500 Sawan 12000
- **Q 7.** a) What is e-Governance? Name any two major e-Governance projects in India.

Ans: E-Governance refers to the application of electronic means in governance with an aim of fulfilling the requirements of a common man at affordable costs and in fastest possible time. Two projects are- Income Tax Portal, DRDO Project, Indian Courts, Supreme Court of India, RTI Portal etc.

b) What is database connectivity?

Ans: Database Connectivity refers to a programming interface through that front end access a database on a backend via same means.

c) Mr. Anubhav is working as a programmer in a Hotel. He wants to create the forms to add the details [2] of customers. Choose appropriate controls from Text Field, Label, Radio Button, Check Box, List Box, Combo Box, and Command Button and write in the third column.

	SNo	Control Used to	Control	
--	-----	-----------------	---------	--

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1	Enter Name of Customer	
2	Select Room Type	
3	To display current date	
4	Selection for extra facilities like Laundry, Food, Gym	

Ans:

SNo	Control Used to	Control
1	Enter Name of Customer	Text Field
2	Select Room Type	Combo/ Radio Button
3	To display current date	Label
4	Selection for extra facilities like Laundry, Food, Gym	Check Box/ List Box

**** Best of Luck *****

Marking Pattern:

Theory :

MySQL – Total -	30 Marks 70 Marks
IT Application –	5 Marks
HTML-	5 Marks
Java -	20 Marks
Networking & Open So	ource –10 Marks

Practical:

Java –	10 Marks (A Program)
MySQL –	4 Marks (Queries on a table)
Records File –	6 Marks
Project Work –	4 Marks
Viva –	6 Marks
Total –	30 Marks

By:

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