# **Series SSO**

# Code No. **90**

D 11.37				1	Candidates must write the Code on the
Roll No.					title page of the answer-book.
				_	

- Please check that this question paper contains 8 printed pages.
- Code number given on the right hand side of the question paper should be written on the title page of the answer-book by the candidate.
- Please check that this question paper contains **7** questions.
- Please write down the Serial Number of the question before attempting it.
- 15 minute time has been allotted to read this question paper. The question paper will be distributed at 10.15 a.m. From 10.15 a.m. to 10.30 a.m., the students will read the question paper only and will not write any answer on the answer-book during this period.

## INFORMATICS PRACTICES

Time allowed: 3 hours Maximum Marks: 70

#### Instructions:

- (i) **All** questions are compulsory.
- (ii) Answer the questions after carefully reading the text.
- 1. (a) A school with 20 stand-alone computers is considering networking them together and adding a server. State 2 advantages of doing this. 1
  - (b) Distinguish between LAN and WAN.
  - (c) What is the purpose of Modem in network?
  - (d) Write one example of IP Address.

1

```
Define 'Domain Name Resolution'.
                                                                              2
    (e)
    (f)
          Name two threats to security in a network. What is the role of
          Firewall in Network security?
                                                                              2
          Write one advantage and one disadvantage of Open Source
    (g)
          software over Proprietary software.
                                                                              2
2.
    (a)
          Write the value of variable 'c' after execution of the following code:
                                                                              1
                int d;
                int c;
                d=7;
                c = (5*++d)%3;
    (b)
          What is the difference between iTextField and iPasswordfield
          components?
                                                                              1
    (c)
          In a SWITCH statement, what is the purpose of 'default' section?
                                                                              1
          After typing the HTML code using a text editor, how do you see
    (d)
          how it would look as a web page?
                                                                              1
    (e)
          Write Java code to assign the value 500 to variable x. Increase
          the value of x by 50 and store it in variable y.
                                                                              2
          Write the output that will be generated by the code given below:
    (f)
                                                                              2
                int i;
                i = 7;
                int r;
                r=8;
                while (i \le 10)
                     {
                     System.out.println(r*i);
                     i = i+2;
                     }
          "With XML there are no predefined tags" - Explain in brief with
    (g)
```

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the help of an example.

```
3.
                                                                       1
    (a)
         What is MySQL?
    (b)
         Is NULL value the same as 0 (zero)? Write the reason for your
                                                                       1
         answer.
         Write the UPDATE command to increase the commission
    (c)
         (Column name: COMM) by 500 of all the Salesmen who have
         achieved Sales (Column name: SALES) more than 200000. The
         table's name is COMPANY.
                                                                       1
    (d)
         While using SQL pattern matching, what is the difference
         between '_' (underscore) and '%' wildcard symbols?
                                                                       1
         How is Primary key constraint different from Unique key
    (e)
         constraint?
                                                                       2
    (f)
         Write one similarity and one difference between CHAR and
         VARCHAR data types.
                                                                       2
         What is a Transaction? Which command is used to make
    (g)
         changes done by a Transaction permanent on a database?
                                                                       2
         The following code has some error(s). Rewrite the correct code
4.
    (a)
         underlining all the corrections made.
                                                                       2
         int marks, temperature;
         marks = jTextField1.getText());
         temperature = Integer.parseInt(jTextField2.getText());
                 if (marks < 80) and (temperature >= 40)
                 {
                 System.out.println("Not Good");
                 }
                 else:
                 {
                    System.out.println("OK");
```

}

```
How many times will the following WHILE loop execute?
(b)
                                                                  2
     int y = 7, sum = 0;
     while (y \le 15)
              {
              sum = sum + y;
              y = y+2;
              }
     Rewrite the following program code using IF ELSE IF instead of
(c)
     SWITCH statement:
                                                                  2
     String tour;
     int cl = Integer.parseInt(jTextField1.getText());
     switch (cl)
     {
      case 8: tour = "\n You are going to Camp Ramgarh";
                break;
      case 9:
               tour = "\n You are going to Manali, Rohtang
                Pass"; break;
      case 10: tour = "\n You are going to Chail";
                break:
      default: tour = " No School tour for you this time";
     }
(d)
     Write the values of sum and x after execution of the following
     code:
                                                                  2
     int sum, x;
     sum = 7;
     x = 5;
     sum = sum + (x++);
     What will be the contents of jTextField1 and jTextField2 after
(e)
     executing the following code:
                                                                  2
     String s = "Best";
     jTextField1.setText(s.length()+" ");
     jTextField2.setText(s.toUpperCase());
```

(f) The students of "Shiksha Vidyalaya" work for different extra curricular activities like 'Community Outreach Programme', 'Swachh Bharat Abhiyan' and 'Traffic Safety Club'. The Programmer at the school has developed a GUI application as shown below:

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	Enter Roll Nu	ımber		
	Enter Name			
⊐ Comm	unity Outreach	Programme		
□ Swach	h Bharat Abhiy	yan		
⊐ Traffic	Safety Club			
Calculat	e Total Score	Stop	Clear	

- A student can participate in more than one activities.
- Each student gets 10 points for each activity namely Community Outreach Programme, Swachh Bharat Abhiyan and Traffic Safety Club.

Help the programmer to write code for the following:

- (i) When 'Calculate Total Score' button is clicked, the points for each activity (that is selected) should be displayed in the text field in front of that activity's checkbox and the Total Score should be displayed in the appropriate Text field.
- (ii) When Clear button is clicked, all the Textfields and Checkboxes should be cleared.
- (iii) When Stop button is clicked, the application should close.

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- **5.** (a) Distinguish between Single Row and Aggregate functions of MySQL. Write one example of each.
  - (b) Consider the following table named "SOFTDRINK". Write commands of SQL for (i) to (iv) and output for (v) to (vii).

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Table: SOFTDRINK

DRINKCODE	DNAME	PRICE	CALORIES
101	Lime and Lemon	20.00	120
102	Apple Drink	18.00	120
103	Nature Nectar	15.00	115
104	Green Mango	15.00	140
105	Aam Panna	20.00	135
106	Mango Juice Bahaar	12.00	150

- (i) To display names and drink codes of those drinks that have more than 120 calories.
- (ii) To display drink codes, names and calories of all drinks, in descending order of calories.
- (iii) To display names and price of drinks that have price in the range 12 to 18 (both 12 and 18 included).
- (iv) Increase the price of all drinks in the given table by 10%.
- (v) SELECT COUNT (DISTINCT (PRICE)) FROM SOFTDRINK;
- (vi) SELECT MAX (CALORIES) FROM SOFTDRINK;
- (vii) SELECT DNAME FROM SOFTDRINK WHERE DNAME LIKE "%Mango%";
- (c) What is the degree and cardinality of 'SOFTDRINK' TABLE?
- **6.** (a) Write MySQL command to create the Table 'LIBRARY' with given constraints.

Table: LIBRARY

COLUMN_NAME	DATATYPE(SIZE)	CONSTRAINT
BookId	Int(10)	Primary Key
BookName	Varchar(40)	Not Null
Type	Char(4)	
Author	Varchar(40)	
No_Copies	Int(6)	
Price	Decimal(8,2)	

(b) In a Database Company, there are two tables given below:

Table: SALES

SALESMANID	NAME	SALES	LOCATIONID
S1	ANITA SINGH ARORA	250000	102
S2	Y.P. SINGH	1300000	101
S3	TINA JAISWAL	1400000	103
S4	GURDEEP SINGH	1250000	102
S5	SIMI FAIZAL	1450000	103

Table: LOCATION

LOCATIONID	LOCATIONNAME
101	Delhi
102	Mumbai
103	Kolkata
104	Chennai

### Write SQL queries for the following:

(i) To display SalesmanID, names of salesmen, LocationID with corresponding location names.

(ii) To display names of salesmen, sales and corresponding location names who have achieved Sales more than 1300000.

- (iii) To display names of those salesmen who have 'SINGH' in their names.
- (iv) Identify Primary key in the table SALES. Give reason for your choice.
- (v) Write SQL command to change the LocationID to 104 of the Salesman with ID as S3 in the table 'SALES'.

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- **7.** (a) How does e-learning allow students to study at their own pace?
  - (b) How does e-governance empower citizens? Write one point.
  - (c) Sabeena is creating a form for the hotel where she works. Help her to choose most appropriate controls from ListBox, ComboBox, TextField, TextArea, RadioButton, Checkbox, Label, and Command Button for the following entries:

S.No.	Function
1	To input name
2	To allow enter gender out of M or F
3	To allow selecting type of room out of Deluxe, SemiDeluxe, General
4	To allow entering preferences of guest in the form of a paragraph

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**CBSE AISSCE 2015 Marking Scheme - Informatics Practices** 

(Sub Code:065 Paper Code 90/Outside Delhi)

#### **General Instructions:**

- Marking scheme is the final document for all references with regard to evaluation and cannot be altered under any circumstances.
- The answers given in the marking scheme are SUGGESTIVE, Examiners are requested to award marks for all alternative correct Solutions/Answers conveying the similar meaning.
- All programming questions have to be answered with respect to Java Language only.
- In Java, ignore case sensitivity for identifiers (Variables / Functions / Structures / Class Names).
- In SQL related questions:
  - a. Both ways of text/character entries should be acceptable. For example: "AMAR" and 'amar' both are acceptable.
  - b. All date entries should be acceptable for example: 'YYYY-MM-DD', 'YY-MM-DD', 'DD-Mon-YY', "DD/MM/YY", 'DD/MM/YY', "MM/DD/YY", 'MM/DD/YY' and {MM/DD/YY} are correct.
  - c. Semicolon should be ignored for terminating the SQL statements.
  - d. Ignore case sensitivity for commands.
  - e. Ignore headers in output questions.

1	(a)	networking t advantages of		g a server. State 2	1			
	Ans	<ul> <li>Resource Sharing - Both Hardware and Software</li> <li>Cost Saving</li> <li>Collaborative use and interaction</li> <li>Time saving</li> <li>Increased storage</li> </ul>						
	41.	`	th for any two correct adve	antages)				
	(b)	Distinguish be	tween LAN and WAN.		1			
	Ans		LAN	WAN				
		Stands For	Local Area Network	Wide Area Network				
		Covers	Limited geographical areas within an organisation or campus only	Very Large geographic areas				
		Example	Network in an office building	Internet				
		Ownership	Single person or organization	Collective or distributed ownership				
		(1 mark for	any one correct difference	?)				
	(c)	What is the p	ourpose of Modem in networl	k?	1			
	Ans	It modulates/converts a digital signal into analog signal and vice versa.						
		( 1 mark for	correct answer )					

	(d)	Write one example of IP Address.	1
	Ans	198.162.1.1	
		( 1 mark for any correct example of IP Address) Note: Range of IP Address 0.0.0.0 to 255.255.255	
	(e)	Define 'Domain Name Resolution'.	2
	Ans	Domain Name Resolution is the process of getting corresponding IP address from a domain name.	
		( 2 marks for correct answer ) OR	
		(2 marks for any valid example illustrating the same )	
	(f)	Name two threats to security in a network. What is the role of Firewall in Network security?	2
	Ans	Threats to security in a network:  • Virus / Malicious software  • Denial of Service (DoS) attack  • Snooping  • Eavesdropping	
		Note: Intrusion problems mentioned in place of Snooping / Eavesdropping to be accepted.	
		Role of firewall in Network security:  A Firewall permits only that data to enter or leave a computer/Network for which permissions have been granted by the computer/network administrator.	
		( ½ mark each for any two correct threats)	
		(1 mark for correct Role of Firewall)	<u> </u>
	(g)	Write one advantage and one disadvantage of Open Source software over Proprietary software.	2
	Ans	<ul> <li>Advantages of Open Source software over Proprietary software</li> <li>Free to use, distribute, and modify</li> <li>No dependence on the developer for updates, support, and fixes.</li> <li>Uses Open Standards</li> </ul>	
		Disadvantages of Open Source software over Proprietary software  • Lack of Software Support  • Generally low Security	
		(1 mark for advantage )	
		(1 mark for disadvantage )	
2	(a)	Write the value of variable 'c' after execution of the following code:	1

 		_
	int d;	
	int c;	
	d=7;	
	c = (5*++d)%3;	
Ans	1	
	(1 mark for correct answer)	
	OR	
	( ½ mark to be awarded if 2 is given as answer on account of student's knowledge about * and % operators)	
(b)	What is the difference between jTextField and jPasswordField	1
	components?	
Ans	jTextField displays input / output characters as they are.	
	jPasswordfield does masking of keyboard input from user, using	
	an echo character '*' by default.	
	(1 mark for correct difference)	
	OR	
	(½ mark for explaining any one)	
(c)	In a SWITCH statement, what is the purpose of 'default' section?	1
Ans	'default' section is used to execute statement(s), when none of	
	the specified cases mentioned match.	
	(1 mark for correct answer)	
(d)	After typing the HTML code using a text editor, how do you see	1
	how it would look as a web page?	
Ans	Open the HTML file using any Web browser/in preview mode of	
	web design tool.	
	Note: Any valid example of Web browser/Web Design Tool	
	should also be accepted.	
	(1 mark for correct answer)	_
(e)	Write Java code to assign the value 500 to variable x. Increase	2
	the value of x by 50 and store it in variable y.	
Ans	$\mathbf{x} = 500;$	
	x += 50;	
	y = x;	
	OR	
	$\mathbf{x} = 500;$	
	$\mathbf{x} = \mathbf{x} + 50;$	
	y = x;	
	( ½ mark for assigning 500 to x)	
	(1 mark for increasing value of x by 50)	
	( ½ mark for assigning increased value to y)	
	1 /2 man ( ) or abbigining mareabad value to y/	

```
(f)
          Write the output that will be generated by the code given
          below:
          int i;
          i = 7;
          int r;
          r=8;
          while (i<=10)
             System.out.println(r*i);
             i = i+2;
    Ans
          56
          72
          (1 mark for each correct line of output)
          OR
           (Full 2 marks to be given if 56 72 mentioned in the same line)
           OR
           (Full 2 marks to be awarded if any part of Question 2 is
          attempted correctly)
          "With XML there are no predefined tags" - Explain in brief with
                                                                          2
    (g)
          the help of an example.
          XML tags are created by the user as there are no standard tags.
    Ans
          For example:
          To store name, the tag <name> may be used as:
          <name> Sumedha </name>
          (2 marks for explanation with the help of example)
          OR
          (Full 2 marks should be awarded if only explanation is given)
3
          What is MySQL?
                                                                          1
    (a)
    Ans
          MySQL is an Open Source Relational Database Management
          System (RDBMS) that uses Structured Query Language (SQL) for
          adding, accessing and managing content in a database.
          OR
          It is an Open Source RDBMS Software. It is available free of cost.
          (1 mark for any correct answer)
          Is NULL value the same as 0 (zero)? Write the reason for your
                                                                          1
    (b)
          answer.
          No.
    Ans
          Reason: NULL is used to mean that the field has no value /
          unknown value.
          0 is a numeric value.
```

	<u> </u>	
	(½ mark for stating NO) (½ mark for any correct reason)	
(c)	Write the UPDATE command to Increase the commission (Column name : COMM) by 500 of all the Salesmen who have achieved Sales (Column name : SALES) more than 200000. The table's name is COMPANY.	1
Ans	UPDATE COMPANY SET COMM = COMM + 500 WHERE SALES > 200000; OR UPDATE COMPANY SET COMM = COMM + 500 WHERE SALES > 200000 AND JOB="Salesmen";	
	(½ mark for correct use of UPDATE SET) (½ mark for correct use of WHERE)	
(d)	While using SQL pattern matching, what is the difference between '_' (underscore) and '%' wildcard symbols?	1
Ans	"_" is used to represent a single character whereas "%" is used to represent any sequence of zero or more characters.	
	<ul> <li>(1 mark for stating any correct difference)</li> <li>OR</li> <li>(1 mark for stating the difference with the help of example)</li> <li>OR</li> <li>(½ mark for any one correct example of either wildcards without explanation)</li> </ul>	
(e)	How is Primary key constraint different from Unique key constraint ?	2
Ans	In a table, there is only one Primary Key constraint whereas, it may have more than one unique key constraint.  OR  Primary Key constraint used to identify a tuple uniquely, can not be null. Unique Key constraint makes sure that duplicate values in the specified column are not accepted, however it may be null	
	( 2 marks for stating any correct difference) OR ( 2 marks for only defining Primary Key constraint)	
(f)	Write one similarity and one difference between CHAR and VARCHAR data types.	2
Ans	<ul> <li>Similarity:</li> <li>Both are used for storing non numeric data.</li> <li>Both can store 1 to 255 characters.</li> <li>Values must be enclosed in single quotes or double quotes.</li> </ul>	

		Difference :					
		CHAR	VARCHAR				
		Used for fixed-length string	Used for variable-length string				
		Padded to the specified length when stored	No padding takes place				
		(1 mark for stating any one correct similarity.) (1 mark for stating any one correct difference.) Note: Full 2 marks to be awarded if similarity / difference explained with the help of example.					
	(g)	What is a Transaction ? Which co done by a Transaction permanen	t on a database?	2			
	Ans	A Transaction is a unit of work that must be done in logical order and successfully as a group or not done at all.  COMMIT command is used to make changes done by a transaction permanent on a database.					
		(1 mark for defining Transaction) (1 mark for stating COMMIT)					
4	(a)	<pre>The following code has some erro underlining all the corrections m int marks, temperature; marks = jTextFieldl.getTe temperature = Integer.parseInt(jTextFie if (marks &lt; 80) and (temp {     System.out.println("Not } else; {     System.out.println("OK" }</pre>	ade.  ext());  eld2.getText());  perature >= 40)  c Good");	2			
	Ans	<pre>int marks , temperature marks =     Integer.parseInt(jTextFident) temperature =     Integer.parseInt(jTextFident) if _((marks &lt;80)_&amp;&amp;_(temperature) {         System.out.println("Note)     }     else</pre>	eld1.getText()); eld2.getText()); erature >= 40))				

```
System.out.println("OK");
     ( ½ mark each for correcting any four errors)
     OR
     (1 mark for only identifying any four errors - without making
     any corrections)
     NOTE:
        System.out.println may also be accepted as an error.
     How many times will the following WHILE loop execute?
(b)
                                                               2
     int y = 7, sum = 0;
     while (y \le 15)
     {
       sum = sum + y;
       y = y+2;
     5 times
Ans
     (2 Marks for correct no.of times)
(c)
     Rewrite the following program code using IF ELSE IF instead of
                                                               2
     SWITCH statement:
     String tour;
     int cl =
     Integer.parseInt(jTextField1.getText());
     switch (c1)
      case 8: tour= "\n You are going to Camp
               Ramgarh";
               break;
      case 9: tour="\n You are going to Manali,
               Rohtang Pass"; break;
      case 10:tour="\n You are going to Chail";
                break;
     default:tour="No School tour for you this time";
Ans
     String tour ;
     int c1=Integer.parseInt(jTextField1.getText());
     if (c1==8)
      tour="\n You are going to Camp Ramgarh";
     else if (c1 == 9)
```

	tour="\n You are going to Manali, Rohtang	
	Pass";	
	else if (c1==10)	
	tour="\n You are going to Chail";	
	else	
	tour=" No school tour for you this time";	
	(½ mark for correct use of if -else statement)	
	(½ mark for each correct condition)	
(d)	Write the values of sum and x after execution of the following	2
	code:	
	int sum,x;	
	sum = 7;  x = 5;	
	sum = sum + (x++);	
Ans	sum = 12	
	x = 6	
	(1 mark for correct value of sum)	
	(1 mark for correct value of x)	
(e)	What will be the contents of jTextField1 and jTextField2 after	2
` '	executing the following code:	
	String s = "Best";	
	<pre>jTextField1.setText(s.length()+" ");</pre>	
	<pre>jTextField2.setText(s.toUpperCase());</pre>	
Ans	4	
	BEST	
	(1 mark for each correct output)	
(f)	The students of "Shiksha Vidyalaya" work for different extra	1
, ,	curricular activities like 'Community Outreach Programme',	
	'Swachh Bharat Abhiyan' and 'Traffic Safety Club'. The	
	Programmer at the school has developed a GUI application as	
	shown below:	
	Shiksha Vidyalaya	
	Enter Roll Number	
	Enter Name	
	Community Outreach Programme	
	□ Swachh Bharat Abhiyan	
	□ Traffic Safety Club	
	Calculate Total Score Stop Clear	
	Total Score	
		1

	A student can participate in more than one activities.	
	Each student gets 10 points for each activity - namely	
	Community Outreach Programme, Swachh Bharat Abhiyan	
	and Traffic Safety Club.	
	Help the programmer to write code for the following:	
(i)	When 'Calculate Total Score' button is clicked, the points for	3
	each activity (that is selected) should be displayed in the text	
	field in front of that activity's checkbox and the Total Score	
	should be displayed in the appropriate Text field.	
Ans	<pre>int Total=0;</pre>	
	<pre>if(jCheckBox1.isSelected())</pre>	
	{	
	<pre>jTextField3.setText(""+10); Total=Total+10;</pre>	
	10ta1-10ta1+10;	
	if(jCheckBox2.isSelected())	
	{	
	<pre>jTextField4.setText(""+10);</pre>	
	Total=Total+10;	
	<pre>if(jCheckBox3.isSelected())</pre>	
	{	
	jTextField5.setText(""+10);	
	Total=Total+10;	
	}	
	jTextField6.setText(""+Total);	
	(1 mark for correct use of if statement)	
	( ½ mark for correct use of setText() for displaying 10,10,10)	
	(1 mark for calculation of Total)	
/** <b>&gt;</b>	(½ mark for displaying Total)	
(ii)	When Clear button is clicked, all the Textfields and Checkboxes	1
	should be cleared.	
Ans	<pre>jTextField1.setText("");</pre>	
	<pre>jTextField2.setText("");</pre>	
	<pre>jTextField3.setText("");</pre>	
	<pre>jTextField4.setText("");</pre>	
	<pre>jTextField5.setText("");</pre>	
	<pre>jCheckBox1.setText(false);</pre>	
	<pre>jCheckBox2.setText(false);</pre>	
	<pre>jCheckBox3.setText(false);</pre>	
	<pre>jTextField6.setText("");</pre>	
	Note: NULL in place of " " should also be accepted.	
	(½ mark for clearing any text field)	
	(½ mark for clearing any check box)	
		-

	(iii)	When Stop I	outton is clicked,	the application sh	ould close.	1	
	Ans	System.ex					
		_	correct answer)				
5	(a)	,	<u> </u>	w and Aggregate f	functions of	2	
		Distinguish between Single Row and Aggregate functions of MySQL. Write one example of each.					
	Ans		•				
		Single Row	function	Aggregate functi	on		
		Works on a s	ingle value / row	Works on multiple column	values in a single		
		Returns one	value for each row	Returns one value single/multiple rov			
		Accepts one	or more arguments	Accepts only one a	rgument		
			Single row function				
ROUND (X), CONCAT (str1, str2, ) or any other suit							
		-	_	Date and Time fu	ınctions.		
		-	Aggregate functio				
			N(), AVG(), S				
		· •	any one correct	,			
		,	•	e example of Sin	gle row function		
			ate function)				
		OR					
		(2 marks f	or any one corre	ect difference ex	xplained with the		
		help of exa	mple)				
	(b)	Consider the following table named "SOFTDRINK". Write					
		command of Table: SOF		and output for (v	) to (vii).		
		DRINKCODE	DNAME	PRICE	CALORIES		
		101	Lime and Lemon	20.00	120		
		102	Apple Drink	18.00	120		
		103	Nature Nectar	15.00	115		
		104	Green Mango	15.00	140		
		105	Aam Panna	20.00	135		
		106	Mango Juice Bahaa	r 12.00	150		
	(i)		names and drink of 120 calories.	codes of those dri	nks that have	1	
	Ans	SELECT DN	AME, DRINKCOD	 E			
		FROM SOFT	•				
		WHERE CAL	ORIES > 120;				
		(½ mark fe	or SELECT)				
		(½ mark fo	or WHERE)				
	(ii)		Irink codes, name order of calories	es and calories of	all drinks, in	1	

	,	
Ans	SELECT DRINKCODE, DNAME, CALORIES	
	FROM SOFTDRINK	
	ORDER BY CALORIES DESC;	
	(½ mark for SELECT)	
	( ½ mark for ORDER BY)	
(iii)	1 ' 7 ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	1
	range 12 to 18 (both 12 and 18 included).	
Ans	,	
	FROM SOFTDRINK	
	WHERE PRICE BETWEEN 12 AND 18; OR	
	SELECT DNAME, PRICE	
	FROM SOFTDRINK	
	WHERE PRICE>= 12 AND PRICE<= 18;	
	OR	
	SELECT DNAME, PRICE	
	FROM SOFTDRINK	
	WHERE PRICE>= 12 && PRICE<= 18;	
	(½ mark for SELECT)	
	( ½ mark for correct use of BETWEEN OR >= and <=)	
(iv)	Increase the price of all drinks in the given table by 10%	1
Ans	UPDATE SOFTDRINK	
	SET PRICE = 1.10 * PRICE;	
	OR	
	UPDATE SOFTDRINK	
	SET PRICE = PRICE + .10 * PRICE;	
	OR UPDATE SOFTDRINK	
	SET PRICE = PRICE + 10/100 * PRICE;	
	(½ mark for UPDATE)	
	(½ mark for SET)	
(v)	SELECT COUNT (DISTINCT (PRICE) ) FROM SOFTDRINK;	1
Ans	COUNT (DISTINCT PRICE)	
	4	
	(1 mark for correct output)	
(vi)	SELECT MAX(CALORIES) FROM SOFTDRINK;	1
(vi)	SELECT MAX (CALORIES) FROM SOFTDRINK;	'
Ans	MAX (CALORIES)	
	150	
	(A morely four converts output)	
1225	(1 mark for correct output)	
(vii)	SELECT DNAME FROM SOFTDRINK	1
	WHERE DNAME LIKE "%Mango%";	

6	(c) Ans	(1 mark for cor What is the degree = 4 , Ca	rect output) ree and cardinality of	'SOFTODINIV'			
6	Ans		ree and cardinality of	'SOFTODINIL'			
6		Degree = 4 , Ca		אווואטו וטכ	TABLE ?	1	
6	(a)		ardinality = 6				
6	(a)	(½ mark each	for correct Degree a	nd Cardinal	ity)		
	` ,	Write MYSQL command to create the table 'LIBRARY' with given constraints.  Table: LIBRARY					
		COLUMN NAME	DATATYPE(SIZE		RAINT	1	
		Bookld	Int(10)	Primar		1	
		BookName	Varchar(40)	Not Nu		11	
		Туре	Char(4)			11	
		Author	Varchar(40)			11	
		No_Copies	Int(6)			11	
		Price	Decimal(8,2)			11	
		BookId Int(10) Primary Key, BookName Varchar(40) Not Null, Type Char(10), Author Varchar(40), No_Copies Int(6), Price Decimal(8,2) );  (1/2 mark for CREATE TABLE)					
		( ½ mark for Co	olumn Names with Da	ita Types)			
		( ½ mark for PI	RIMARY KEY Constru	int)			
		( ½ mark for NO	T NULL Constraint)				
	(b)	In a Database C	ompany, there are tw	vo tables giv	en below:		
			Table: SAL	ES			
		SALESMANID N	AME	SALES	LOCATIONID		
		S1 A	NITA SINGH ARORA	250000	102		
			.P.SINGH	1300000	101		
			INA JAISWAL	1400000	103		
			URDEEP SINGH	1250000	102		
		S5 S	MI FAIZAL	1450000	103		

	Table : LOCATION	1	
		LOCATIONNAME	
	101	Delhi	
	102	Mumbai	
	103	Kolkata	
	104	Chennai	
	Write SQL queries for		
(i)	1		2
	corresponding locati		
Ans		ID, NAME, S.LOCATIONID,	
	LOCATIONNAME		
	FROM SALES S, LC	OCATION L	
	WHERE S.LOCATION	NID = L.LOCATIONID;	
	OR		
	SELECT SALESMANI	ID, NAME,	
		CATIONID, LOCATIONNAME	
	FROM SALES, LOCA	' I	
	,	ATIONID = LOCATION.LOCATIONID;	
	OR		
	SELECT SALESMANI	D NAME	
		·	
		LOCATIONID, LOCATIONAME	
	FROM SALES, LOCA		
		ATIONID = LOCATION.LOCATIONID;	
	OR		
		LESMANID, SALES. NAME,	
		CATIONID, LOCATION.LOCATIONNAME	
	FROM SALES, LOCA	ATION	
	WHERE SALES.LOCA	ATIONID = LOCATION.LOCATIONID;	
	OR		
	SELECT SALESMANI	ID, NAME,	
	L.LOCATIO	ONID, L.LOCATIONNAME	
	FROM SALES S, LC	OCATION L	
	WHERE S.LOCATION	NID = L.LOCATIONID;	
	OR		
	SELECT S.SALESMA	ANID, S.NAME,	
		ONID, LOCATIONNAME	
	FROM SALES S, LC	· ·	
	•	NID = L.LOCATIONID;	
	(1 mark for SELECT)		
	1 `	<b>'</b>	
	(½ mark for FROM)		
	(½ mark for correct	use of Join)	

(ii)	To display names of salesmen, sales and corresponding location names who have achieved Sales more than 1300000.	2
And		
Ans	SELECT S.NAME, S.SALES, L.LOCATIONNAME	
	FROM SALES S, LOCATION L	
	WHERE S.LOCATIONID = L.LOCATIONID	
	AND S.SALES > 1300000;	
	OR	
	SELECT NAME, SALES, LOCATIONNAME	
	FROM SALES, LOCATION	
	WHERE SALES.LOCATIONID = LOCATION.LOCATIONID	
	AND SALES > 1300000;	
	OR	
	SELECT SALES.NAME, SALES.SALES,	
	LOCATION.LOCATIONNAME	
	FROM SALES, LOCATION	
	WHERE SALES.LOCATIONID = LOCATION.LOCATIONID	
	AND SALES > 1300000;	
	OR	
	SELECT NAME, SALES, LOCATIONNAME	
	FROM SALES S, LOCATION L	
	WHERE S.LOCATIONID = L.LOCATIONID	
	AND S.SALES > 1300000;	
	(½ mark for SELECT)	
	(½ mark for FROM)	
	(½ mark for correct use of join)	
	(½ mark for sales>1300000 condition)	
(iii)	To display names of those salesmen who have 'SINGH' in their	2
	names.	
Ans	SELECT NAME FROM SALES	
	WHERE NAME LIKE "%SINGH%";	
	(½ mark for SELECT)	
	(½ mark for FROM)	
	(1 mark for condition)	
(iv)	Identify Primary key in the table SALES. Give reason for your	1
	choice.	
Ans	Primary Key(Table:SALES)- SALESMANID	
	Reason: It can uniquely identify each row in the table SALES.	
	(½ mark for stating SALESMANID)	
	(½ mark for valid reason)	
	(/2	
		<u> </u>

	(v)	Write SQL command to change the LocationID to 104 of the	1
		Salesman with ID as S3 in the table 'SALES'.	
	Ans	UPDATE SALES	
		SET LOCATIONID=104	
		WHERE SALESMANID="S3";	
		(½ mark for UPDATE SET)	
		(½ mark for WHERE)	
7	(a)	How does e-learning allow students to study at their own pace?	2
	Ans	E-Learning at own pace allows a student:	
		Learning any time	
		Learning any topic	
		Evaluation at own pace	
		(2 marks for any one valid point)	
	(b)	How does e-governance empower citizens? Write one point.	1
	Ans	e-Governance empowers citizen by providing:	
		<ul> <li>Access to all government instructions and rules</li> </ul>	
		Facility to contact government officials	
		Lauge request/complaint     Online registrations for various government services.	
		<ul> <li>Online registrations for various government services</li> <li>(1 mark for any one valid point)</li> </ul>	
	(c)	Sabeena is creating a form for the hotel where she works. Help	2
	(c)	her to choose most appropriate controls from ListBox,	
		ComboBox, TextField, TextArea, RadioButton, Checkbox,	
		Label, and Command Button for the following entries:	
		S.No. Function	
		1 To input name	
		2 To allow enter gender out of M or F	
		3 To allow selecting type of room out of Deluxe,	
		SemiDeluxe, General	
		4 To allow entering preferences of guest in the form of a	
		paragraph	
		S.No. Control/s	
		1 TextField	
		2 ComboBox / RadioButton	
		3 ComboBox / RadioButton	
		4 TextArea	
I		( ½ mark for each correct control)	