

# CBSE AISSEE 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.

<b>1</b>	<b>(a)</b>	A school with 20 stand-alone computers is considering networking them together and adding a server. State 2 advantages of doing this.	<b>1</b>															
	<b>Ans</b>	<ul style="list-style-type: none"> <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>																
		<i>( ½ mark each for any two correct advantages)</i>																
	<b>(b)</b>	Distinguish between LAN and WAN.	<b>1</b>															
	<b>Ans</b>	<table border="1" style="width: 100%; border-collapse: collapse; margin-left: 20px;"> <thead> <tr> <th style="width: 20%;"></th> <th style="width: 40%;">LAN</th> <th style="width: 40%;">WAN</th> </tr> </thead> <tbody> <tr> <td>Stands For</td> <td>Local Area Network</td> <td>Wide Area Network</td> </tr> <tr> <td>Covers</td> <td>Limited geographical areas within an organisation or campus only</td> <td>Very Large geographic areas</td> </tr> <tr> <td>Example</td> <td>Network in an office building</td> <td>Internet</td> </tr> <tr> <td>Ownership</td> <td>Single person or organization</td> <td>Collective or distributed ownership</td> </tr> </tbody> </table>		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	
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Ownership	Single person or organization	Collective or distributed ownership																
		<i>( 1 mark for any one correct difference )</i>																
	<b>(c)</b>	What is the purpose of Modem in network?	<b>1</b>															
	<b>Ans</b>	It modulates/converts a digital signal into analog signal and vice versa.																
		<i>( 1 mark for correct answer )</i>																

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	(d)	Write one example of IP Address.	<b>1</b>
	Ans	198.162.1.1	
		<i>( 1 mark for any correct example of IP Address)</i> <i>Note: Range of IP Address 0.0.0.0 to 255.255.255.255</i>	
	(e)	Define 'Domain Name Resolution'.	<b>2</b>
	Ans	Domain Name Resolution is the process of getting corresponding IP address from a domain name.	
		<i>( 2 marks for correct answer )</i> <i>OR</i> <i>(2 marks for any valid example illustrating the same )</i>	
	(f)	Name two threats to security in a network. What is the role of Firewall in Network security?	<b>2</b>
	Ans	Threats to security in a network : <ul style="list-style-type: none"> <li>● Virus / Malicious software</li> <li>● Denial of Service (DoS) attack</li> <li>● Snooping</li> <li>● Eavesdropping</li> </ul> <p><i>Note : Intrusion problems mentioned in place of Snooping / Eavesdropping to be accepted .</i></p> <p>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.</p>	
		<i>( ½ mark each for any two correct threats)</i> <i>(1 mark for correct Role of Firewall)</i>	
	(g)	Write one advantage and one disadvantage of Open Source software over Proprietary software.	<b>2</b>
	Ans	Advantages of Open Source software over Proprietary software <ul style="list-style-type: none"> <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> <p>Disadvantages of Open Source software over Proprietary software</p> <ul style="list-style-type: none"> <li>● Lack of Software Support</li> <li>● Generally low Security</li> </ul>	
		<i>(1 mark for advantage )</i> <i>(1 mark for disadvantage )</i>	
<b>2</b>	(a)	Write the value of variable 'c' after execution of the following code:	<b>1</b>

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		<pre>int d; int c; d=7; c = (5*++d) %3;</pre>	
	<b>Ans</b>	1	
		<p><i>(1 mark for correct answer)</i>  <b>OR</b>  <i>( ½ mark to be awarded if 2 is given as answer on account of student's knowledge about * and % operators)</i></p>	
	<b>(b)</b>	What is the difference between jTextField and jPasswordField components?	<b>1</b>
	<b>Ans</b>	<p>jTextField displays input / output characters as they are.  jPasswordField does masking of keyboard input from user, using an echo character '*' by default.</p>	
		<p><i>(1 mark for correct difference)</i>  <b>OR</b>  <i>( ½ mark for explaining any one)</i></p>	
	<b>(c)</b>	In a SWITCH statement, what is the purpose of 'default' section?	<b>1</b>
	<b>Ans</b>	'default' section is used to execute statement(s), when none of the specified cases mentioned match.	
		<i>(1 mark for correct answer)</i>	
	<b>(d)</b>	After typing the HTML code using a text editor, how do you see how it would look as a web page?	<b>1</b>
	<b>Ans</b>	<p>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.</p>	
		<i>(1 mark for correct answer)</i>	
	<b>(e)</b>	Write Java code to assign the value 500 to variable x. Increase the value of x by 50 and store it in variable y.	<b>2</b>
	<b>Ans</b>	<pre>x = 500; x += 50; y = x; OR x = 500; x = x + 50; y = x;</pre>	
		<p><i>( ½ mark for assigning 500 to x)</i>  <i>( 1 mark for increasing value of x by 50)</i>  <i>( ½ mark for assigning increased value to y)</i></p>	

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

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		<i>(1/2 mark for stating NO)</i> <i>(1/2 mark for any correct reason)</i>	
	(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.	<b>1</b>
	Ans	UPDATE COMPANY SET COMM = COMM + 500 WHERE SALES > 200000; OR UPDATE COMPANY SET COMM = COMM + 500 WHERE SALES > 200000 AND JOB="Salesmen";	
		<i>( 1/2 mark for correct use of UPDATE SET)</i> <i>( 1/2 mark for correct use of WHERE)</i>	
	(d)	While using SQL pattern matching, what is the difference between '_' (underscore) and '%' wildcard symbols?	<b>1</b>
	Ans	“_” is used to represent a single character whereas “%” is used to represent any sequence of zero or more characters.	
		<i>( 1 mark for stating any correct difference )</i> <i>OR</i> <i>( 1 mark for stating the difference with the help of example)</i> <i>OR</i> <i>( 1/2 mark for any one correct example of either wildcards without explanation)</i>	
	(e)	How is Primary key constraint different from Unique key constraint ?	<b>2</b>
	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	
		<i>( 2 marks for stating any correct difference)</i> <i>OR</i> <i>( 2 marks for only defining Primary Key constraint)</i>	
	(f)	Write one similarity and one difference between CHAR and VARCHAR data types.	<b>2</b>
	Ans	Similarity : <ul style="list-style-type: none"> <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>	

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		Difference : <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <td style="width: 50%;">CHAR</td> <td style="width: 50%;">VARCHAR</td> </tr> <tr> <td>Used for fixed-length string</td> <td>Used for variable-length string</td> </tr> <tr> <td>Padded to the specified length when stored</td> <td>No padding takes place</td> </tr> </table>	CHAR	VARCHAR	Used for fixed-length string	Used for variable-length string	Padded to the specified length when stored	No padding takes place	
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 command is used to make changes done by a Transaction permanent 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)	The following code has some error(s). Rewrite the correct code underlining all the corrections made. <pre> int marks, temperature; marks = jTextField1.getText(); temperature = Integer.parseInt(jTextField2.getText()); if (marks &lt; 80) and (temperature &gt;= 40) {     System.out.println("Not Good"); } else; {     System.out.println("OK"); }                 </pre>	2						
	Ans	<pre> int marks , temperature ; marks = <u>Integer.parseInt(jTextField1.getText());</u> temperature = Integer.parseInt(jTextField2.getText()); if <u>(marks &lt;80) &amp;&amp; (temperature &gt;= 40)</u> {     System.out.println("Not Good"); } <u>else</u>                 </pre>							

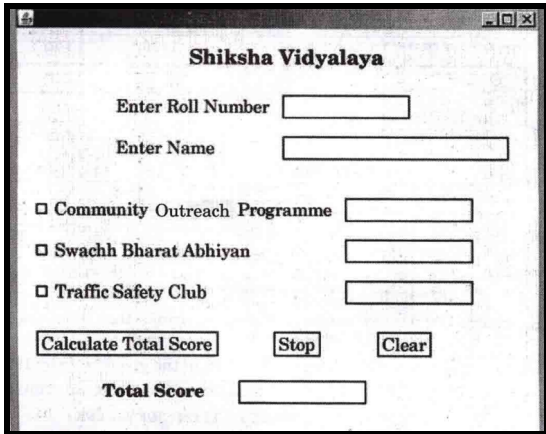
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		<pre>{     System.out.println("OK"); }</pre>	
		<p><i>( ½ mark each for correcting any four errors)</i>  <b>OR</b>  <i>(1 mark for only identifying any four errors - without making any corrections)</i>  <b>NOTE:</b>                  System.out.println may also be accepted as an error.</p>	
	<b>(b)</b>	<p>How many times will the following WHILE loop execute ?</p> <pre>int y = 7, sum = 0; while (y&lt;=15) {     sum = sum + y;     y = y+2; }</pre>	<b>2</b>
	<b>Ans</b>	5 times	
		<i>( 2 Marks for correct no.of times)</i>	
	<b>(c)</b>	<p>Rewrite the following program code using IF ELSE IF instead of SWITCH statement :</p> <pre>String tour; int c1 = 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"; }</pre>	<b>2</b>
	<b>Ans</b>	<pre>String tour ; int c1=Integer.parseInt(jTextField1.getText()); if (c1==8)     tour="\n You are going to Camp Ramgarh"; else if (c1 == 9)</pre>	

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		<pre> 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";                 </pre>	
		<p><i>( ½ mark for correct use of if -else statement )</i></p> <p><i>( ½ mark for each correct condition )</i></p>	
	(d)	<p>Write the values of sum and x after execution of the following code:</p> <pre> int sum,x; sum = 7; x = 5; sum = sum + (x++);                 </pre>	2
	Ans	<pre> sum = 12 x = 6                 </pre>	
		<p><i>(1 mark for correct value of sum)</i></p> <p><i>(1 mark for correct value of x)</i></p>	
	(e)	<p>What will be the contents of jTextField1 and jTextField2 after executing the following code:</p> <pre> String s = "Best"; jTextField1.setText(s.length()+" "); jTextField2.setText(s.toUpperCase());                 </pre>	2
	Ans	<pre> 4 BEST                 </pre>	
		<p><i>(1 mark for each correct output)</i></p>	
	(f)	<p>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:</p> <div style="text-align: center;">  </div>	



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	<ul style="list-style-type: none"> <li>• A student can participate in more than one activities.</li> <li>• Each student gets 10 points for each activity - namely Community Outreach Programme, Swachh Bharat Abhiyan and Traffic Safety Club.</li> </ul> <p><b>Help the programmer to write code for the following:</b></p>	
(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.	<b>3</b>
Ans	<pre>int Total=0; if(jCheckBox1.isSelected()) {     jTextField3.setText(""+10);     Total=Total+10; } if(jCheckBox2.isSelected()) {     jTextField4.setText(""+10);     Total=Total+10; } if(jCheckBox3.isSelected()) {     jTextField5.setText(""+10);     Total=Total+10; } jTextField6.setText(""+Total);</pre>	
	<p><i>( 1 mark for correct use of if statement)</i></p> <p><i>( ½ mark for correct use of setText() for displaying 10,10,10)</i></p> <p><i>( 1 mark for calculation of Total)</i></p> <p><i>( ½ mark for displaying Total)</i></p>	
(ii)	When Clear button is clicked, all the Textfields and Checkboxes should be cleared.	<b>1</b>
Ans	<pre>jTextField1.setText(""); jTextField2.setText(""); jTextField3.setText(""); jTextField4.setText(""); jTextField5.setText(""); jCheckBox1.setText(false); jCheckBox2.setText(false); jCheckBox3.setText(false); jTextField6.setText("");</pre> <p><b>Note: NULL in place of " " should also be accepted.</b></p>	
	<p><i>( ½ mark for clearing any text field)</i></p> <p><i>( ½ mark for clearing any check box)</i></p>	

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	(iii)	When Stop button is clicked, the application should close.	<b>1</b>																												
	Ans	<code>System.exit(0);</code>																													
		<i>(1 mark for correct answer)</i>																													
<b>5</b>	<b>(a)</b>	Distinguish between Single Row and Aggregate functions of MySQL. Write one example of each.	<b>2</b>																												
	Ans	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">Single Row function</th> <th style="width: 50%;">Aggregate function</th> </tr> </thead> <tbody> <tr> <td>Works on a single value / row</td> <td>Works on multiple values in a single column</td> </tr> <tr> <td>Returns one value for each row</td> <td>Returns one value after operating on single/multiple rows</td> </tr> <tr> <td>Accepts one or more arguments</td> <td>Accepts only one argument</td> </tr> </tbody> </table> <p>Example of Single row function  <b>ROUND (X) , CONCAT (str1 , str2 , ..)</b> or any other suitable example of Numeric, String or Date and Time functions.                      Example of Aggregate function  <b>MAX () , MIN () , AVG () , SUM () , COUNT ()</b></p>	Single Row function	Aggregate function	Works on a single value / row	Works on multiple values in a single column	Returns one value for each row	Returns one value after operating on single/multiple rows	Accepts one or more arguments	Accepts only one argument																					
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		<i>(1 mark for any one correct difference)</i> <i>(½ mark each for any one example of Single row function and Aggregate function)</i> <b>OR</b> <i>(2 marks for any one correct difference explained with the help of example)</i>																													
	<b>(b)</b>	Consider the following table named "SOFTDRINK". Write command of SQL for (i) to (iv) and output for (v) to (vii). Table : SOFTDRINK <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="width: 15%;">DRINKCODE</th> <th style="width: 40%;">DNAME</th> <th style="width: 15%;">PRICE</th> <th style="width: 30%;">CALORIES</th> </tr> </thead> <tbody> <tr> <td>101</td> <td>Lime and Lemon</td> <td>20.00</td> <td>120</td> </tr> <tr> <td>102</td> <td>Apple Drink</td> <td>18.00</td> <td>120</td> </tr> <tr> <td>103</td> <td>Nature Nectar</td> <td>15.00</td> <td>115</td> </tr> <tr> <td>104</td> <td>Green Mango</td> <td>15.00</td> <td>140</td> </tr> <tr> <td>105</td> <td>Aam Panna</td> <td>20.00</td> <td>135</td> </tr> <tr> <td>106</td> <td>Mango Juice Bahaar</td> <td>12.00</td> <td>150</td> </tr> </tbody> </table>	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	
DRINKCODE	DNAME	PRICE	CALORIES																												
101	Lime and Lemon	20.00	120																												
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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																												
	<b>(i)</b>	To display names and drink codes of those drinks that have more than 120 calories.	<b>1</b>																												
	Ans	<b>SELECT DNAME , DRINKCODE                      FROM SOFTDRINK                      WHERE CALORIES &gt; 120;</b>																													
		<i>( ½ mark for SELECT)</i> <i>( ½ mark for WHERE)</i>																													
	<b>(ii)</b>	To display drink codes, names and calories of all drinks, in descending order of calories.	<b>1</b>																												

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	Ans	SELECT DRINKCODE, DNAME, CALORIES FROM SOFTDRINK ORDER BY CALORIES DESC;	
		( ½ mark for SELECT) ( ½ mark for ORDER BY)	
	(iii)	To display names and price of drinks that have price in the range 12 to 18 (both 12 and 18 included).	1
	Ans	SELECT DNAME, PRICE 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	<u>COUNT(DISTINCT PRICE)</u> 4	
		(1 mark for correct output)	
	(vi)	SELECT MAX(CALORIES) FROM SOFTDRINK;	1
	Ans	<u>MAX (CALORIES)</u> 150	
		(1 mark for correct output)	
	(vii)	SELECT DNAME FROM SOFTDRINK WHERE DNAME LIKE "%Mango%";	1

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	Ans	<u>DNAME</u> Green Mango Mango Juice Bahaar																									
		<i>(1 mark for correct output)</i>																									
	(c)	What is the degree and cardinality of 'SOFTDRINK' TABLE ?	<b>1</b>																								
	Ans	Degree = 4 , Cardinality = 6																									
		<i>( ½ mark each for correct Degree and Cardinality)</i>																									
<b>6</b>	(a)	Write MYSQL command to create the table 'LIBRARY' with given constraints.  Table : LIBRARY	<b>2</b>																								
		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>COLUMN_NAME</th> <th>DATATYPE(SIZE)</th> <th>CONSTRAINT</th> </tr> </thead> <tbody> <tr> <td>BookId</td> <td>Int(10)</td> <td>Primary Key</td> </tr> <tr> <td>BookName</td> <td>Varchar(40)</td> <td>Not Null</td> </tr> <tr> <td>Type</td> <td>Char(4)</td> <td></td> </tr> <tr> <td>Author</td> <td>Varchar(40)</td> <td></td> </tr> <tr> <td>No_Copies</td> <td>Int(6)</td> <td></td> </tr> <tr> <td>Price</td> <td>Decimal(8,2)</td> <td></td> </tr> </tbody> </table>	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)					
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)																										
	Ans	CREATE TABLE LIBRARY ( BookId Int(10) Primary Key, BookName Varchar(40) Not Null, Type Char(10) , Author Varchar(40) , No_Copies Int(6) , Price Decimal(8,2) ) ;																									
		<i>( ½ mark for CREATE TABLE)</i> <i>( ½ mark for Column Names with Data Types)</i> <i>( ½ mark for PRIMARY KEY Constraint)</i> <i>( ½ mark for NOT NULL Constraint)</i>																									
	(b)	In a Database Company, there are two tables given below:  Table : SALES																									
		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>SALESMANID</th> <th>NAME</th> <th>SALES</th> <th>LOCATIONID</th> </tr> </thead> <tbody> <tr> <td>S1</td> <td>ANITA SINGH ARORA</td> <td>250000</td> <td>102</td> </tr> <tr> <td>S2</td> <td>Y.P.SINGH</td> <td>1300000</td> <td>101</td> </tr> <tr> <td>S3</td> <td>TINA JAISWAL</td> <td>1400000</td> <td>103</td> </tr> <tr> <td>S4</td> <td>GURDEEP SINGH</td> <td>1250000</td> <td>102</td> </tr> <tr> <td>S5</td> <td>SIMI FAIZAL</td> <td>1450000</td> <td>103</td> </tr> </tbody> </table>	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	
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# CBSE AISSEE 2015 Marking Scheme - Informatics Practices

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

		<p><b>Table : LOCATION</b></p> <table border="1" style="width: 100%; border-collapse: collapse; margin-bottom: 5px;"> <thead> <tr> <th style="text-align: left;">LOCATIONID</th> <th style="text-align: left;">LOCATIONNAME</th> </tr> </thead> <tbody> <tr> <td>101</td> <td>Delhi</td> </tr> <tr> <td>102</td> <td>Mumbai</td> </tr> <tr> <td>103</td> <td>Kolkata</td> </tr> <tr> <td>104</td> <td>Chennai</td> </tr> </tbody> </table> <p>Write SQL queries for the following:</p>	LOCATIONID	LOCATIONNAME	101	Delhi	102	Mumbai	103	Kolkata	104	Chennai	
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102	Mumbai												
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104	Chennai												
	(i)	To display SalesmanID, names of salesmen, LocationID with corresponding location names	2										
	Ans	<pre> SELECT SALESMANID, NAME, S.LOCATIONID, LOCATIONNAME FROM SALES S, LOCATION L WHERE S.LOCATIONID = L.LOCATIONID; OR SELECT SALESMANID, NAME,         SALES.LOCATIONID, LOCATIONNAME FROM SALES, LOCATION WHERE SALES.LOCATIONID = LOCATION.LOCATIONID; OR SELECT SALESMANID, NAME,         LOCATION.LOCATIONID, LOCATIONNAME FROM SALES, LOCATION WHERE SALES.LOCATIONID = LOCATION.LOCATIONID; OR SELECT SALES.SALESMANID, SALES.NAME,         SALES.LOCATIONID, LOCATION.LOCATIONNAME FROM SALES, LOCATION WHERE SALES.LOCATIONID = LOCATION.LOCATIONID; OR SELECT SALESMANID, NAME,         L.LOCATIONID, L.LOCATIONNAME FROM SALES S, LOCATION L WHERE S.LOCATIONID = L.LOCATIONID; OR SELECT S.SALESMANID, S.NAME,         S.LOCATIONID, LOCATIONNAME FROM SALES S, LOCATION L WHERE S.LOCATIONID = L.LOCATIONID;                 </pre>											
		<p><i>(1 mark for SELECT)</i></p> <p><i>(½ mark for FROM)</i></p> <p><i>(½ mark for correct use of join)</i></p>											

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

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	(v)	Write SQL command to change the LocationID to 104 of the Salesman with ID as S3 in the table 'SALES'.	1										
	Ans	<pre>UPDATE SALES SET LOCATIONID=104 WHERE SALESMANID="S3";</pre>											
		<p>( ½ mark for UPDATE SET) ( ½ mark for WHERE)</p>											
7	(a)	How does e-learning allow students to study at their own pace ?	2										
	Ans	<p>E-Learning at own pace allows a student:</p> <ul style="list-style-type: none"> <li>• Learning any time</li> <li>• Learning any topic</li> <li>• Evaluation at own pace</li> </ul>											
		(2 marks for any one valid point)											
	(b)	How does e-governance empower citizens? Write one point.	1										
	Ans	<p>e-Governance empowers citizen by providing:</p> <ul style="list-style-type: none"> <li>• Access to all government instructions and rules</li> <li>• Facility to contact government officials</li> <li>• Lauge request/complaint</li> <li>• Online registrations for various government services</li> </ul>											
		(1 mark for any one valid point)											
	(c)	<p>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:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">S.No.</th> <th>Function</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>To input name</td> </tr> <tr> <td style="text-align: center;">2</td> <td>To allow enter gender out of M or F</td> </tr> <tr> <td style="text-align: center;">3</td> <td>To allow selecting type of room out of Deluxe, SemiDeluxe, General</td> </tr> <tr> <td style="text-align: center;">4</td> <td>To allow entering preferences of guest in the form of a paragraph</td> </tr> </tbody> </table>	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	2
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		( ½ mark for each correct control)											