Series : SSO/1	eries: SSO/1
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Code No. 90/1

				Candidates must write the Code on
Roll No.				the title page of the answer-book.

- Please check that this question paper contains 7 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	
allov	ved: 3 hours] [Maximum marks: 70	0
uctioi	is:	
<i>(i)</i>	All questions are compulsory.	
(ii)	Answer the questions after carefully reading the text.	
(a)	A company has 3 departments namely Administrative, Sales, Production. Out of	
	telephone cable, Optical Fiber, Ethernet Cable, which communication medium is	
	best for high speed communication between departments?	1
(b)	Name one open source Indian operating system.	1
(c)	What is the purpose of a Server in a network?	1
(d)	What do the following top level domains signify?	1
	(i) .com	
X	(ii) .org	
(e)	List 2 measures to secure a network.	2
(f)	Distinguish between MAC address and IP address with the help of example of	
	each.	2
(g)	Distinguish between Phonetic text entry and keymap based entry of typing Indian	
	language text.	2
	1 [P.T.C).
	(i) (ii) (a) (b) (c) (d) (e) (f)	 allowed: 3 hours] [Maximum marks: 70 uctions: (i) All questions are compulsory. (ii) Answer the questions after carefully reading the text. (a) A company has 3 departments namely Administrative, Sales, Production. Out of telephone cable, Optical Fiber, Ethernet Cable, which communication medium is best for high speed communication between departments? (b) Name one open source Indian operating system. (c) What is the purpose of a Server in a network? (d) What do the following top level domains signify? (i) .com (ii) .org (e) List 2 measures to secure a network. (f) Distinguish between MAC address and IP address with the help of example of each. (g) Distinguish between Phonetic text entry and keymap based entry of typing Indian language text.

2. Write the value of t after the execution of the following code: 1 int t; int s; s=6;t = (8 * s++) % 7;(b) 1 Which tag is used to display a horizontal rule on a web page? In a SWITCH statement, what is the purpose of BREAK statements? 1 (c) Identify the error in the following HTML code. Rewrite the correct code. 1 (d) <UL TYPE = "a" START = 4> Write Java code to assign the value 70 to variable y. Then decrease the value of (e) y by 5 and store it in variable z. 2 Write the output that will be generated by the code given below: 2 (f) int i; int t; for (i = 5; i <=10; i = i+5)system.out.println(" "With XML you invent your own tags." Explain this statement with the help of (g) 2 example. 3. Sharmila wants to make the database named 'COMPANY' active and display the (a) names of all the tables in it. Write MySQL commands for it. 1 Write SQL command to remove column named 'Hobbies' from a table named (b) 'Student'. 1 Rewrite the following SQL statement after correcting error(s). Underline the (c) corrections made. 1 INSERT IN EMP(EMPNO, SALES) VALUE (100, 20078.50); (d) A table STUDENT has 5 rows and 3 columns. Table ACTIVITY has 4 rows and 2 columns. What will be the cardinality and degree of the Cartesian product of them? 1 2 Name the SQL commands used to: (i) Physically delete a table from the database. (ii) Display the structure of a table. (f) Write one similarity and one difference between UNIQUE and PRIMARY KEY 2 constraints. What effect does SET AUTOCOMMIT have in transactions? 2

The following code has some error(s). Rewrite the correct code underlining all the 4. corrections made. int written, interview; written = Integer.parseInt(jTextField1.getText()); interview = Integer.parseInt(jTextField2.getText()); if (written <80) OR (interview <15) { System.out.println(Not selected); } Else; { System.out.println("Selected"); 2 (b) How many times will the following loop execute: int z = 7, sum = 0; do { sum = sum + z;z = z+2;system.out.println(} while $(z \le 12);$ Rewrite the following program code using IF ELSE IF instead of SWITCH statement. 2 String rem; int code = Integer.parseInt(jTextField1.getText()); Switch (code) { rem = "Classes start on 8th April"; case 1 break; rem = "Classes start on 10th April"; break; rem = "Classes start on 12th April"; break; default : rem = "Contact Admin Office"; (d) Write the values of sum and t after execution of the following code : 2 int sum, t; sum = 27;

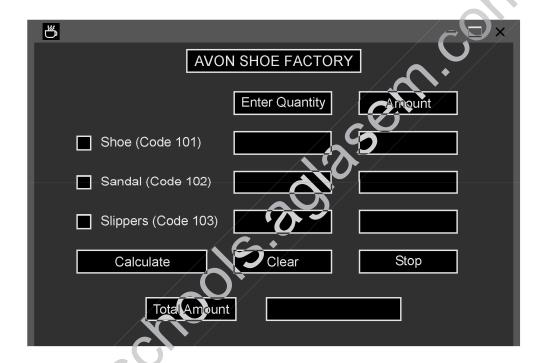
sum = sum + 2 * (++t);90/1
3 [P.T.O.

t = 3;

(e) What will be the contents of jTextField1 and jTextField2 after executing the following code:

```
String s = "Best";
String r = "Luck";
String z;
Z = r.concat(s);
jTextField1.setText(z);
jTextField2.setText(r.toUpperCase());
```

(f) Seema is a junior programmer at 'Avon Shoe Factory'. She has created the following GUI in Netbeans.



- 3 items namely Shoes, Sandals and Slippers are manufactured by the factory.
- A buyer can buy more than one item at a time.
- Each pair of shoes costs ₹ 1,500.00, each pair of sandals costs ₹ 1,000.00 and each pair of slippers cost ₹ 500.00.
- The item bought will be selected by the user and the Quantity (number of pairs) bought will be entered by the user.
- Amount to be paid for that item will be displayed in front of the item.

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For example if 'Shoe' is selected and Quantity entered is 20, then Amount should be displayed as 30000.

Help Seema write code for the following:

(a) When 'Calculate' button is clicked, the amount should be displayed in front of each item (in the appropriate textfield) and Total amount (sum total of all the amounts) should be displayed in the appropriate textfield.

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- (b) When Clear button is clicked, all the Textfields and Checkboxes should be cleared.
- (c) When Stop button is clicked, the application should close.
- 5. (a) Write one similarity and one difference between CHAR and VARCHAR data types.
 - (b) Consider the following table named "GARMENT". Write command of SQL for (i) to (iv) and output for (v) to (vii).

Table : GARMENT

GCODE	GNAME	SIZE	COLOUR	PRICE
111	TShirt	XL	Red	1400.00
112	Jeans	L	Blue	1600.00
113	Skirt	М	Black	1100.00
114	Ladies Jacket	XL	Blue	4000.00
115	Trousers	L	Brown	1500.00
116	Ladies Top	L	Pink	1200.00

- (i) To display names of those garments that are available in 'XL' size.
- (ii) To display codes and names of those garments that have their names starting with 'Ladies'.
- (iii) To display garment names, codes and prices of those garments that have price in the range 1000.00 to 1500.00 (both 1000.00 and 1500.00 included). 1
- (iv) To change the colour of garment with code as 116 to "Orange".
- (v) SELECT COUNT(DISTINCT (SIZE)) FROM GARMENT;
- (vi) SELECT AVG (PRICE) FROM GARMENT;
- (vii) SELECT GNAME FROM GARMENT WHERE SIZE IN ('M', 'L') AND
 PRICE > 1500;
- (c) What is the degree and cardinality of 'Garment' table ?

6. (a) Write MySql command to create the table DEPARTMENT with given constraints. 2 Table DEPARTMENT

COLUMN_NAME	DATATYPE(SIZE)	CONSTRAINT
DepartmentID	int(4)	Primary key
DepName	varchar(50)	Not Null
ManagerID	char(4)	
Location	varchar(30)	

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

Table: EMPLOYEE

EMPLOYEEID	NAME	SALES	JOBID
E1	SAMIT SINHA	1100000	102
E2	VIJAY SINGH TOMAR	1300000	101
E3	AJAY RAJPAL	1400000	103
E4	MOHIT RAMNANI	1250000	102
E5	SHAILJA SINGH	1450000	103

Table: JOB

JOBID	JOBTITLE	SALARY
101	President	200000
102	Vice President	125000
103	Administration Assistant	80000
104	Accounting Manager	70000
105	Accountant	65000
106	Sales Manager	80000

Write SQL Queries for the following:

(i) To display employee ids, names of employees, job ids with corresponding job titles.

2

2

1

- (ii) To display names of employees, sales and corresponding job titles who have achieved sales more than 1300000.
- (iii) To display names and corresponding job titles of those employee who have 'SINGH' (anywhere) in their names.
- (iv) Identify foreign key in the table EMPLOYEE.
- (v) Write SQL command to change the JOBID to 104 of the Employee with ID as E4 in the table 'EMPLOYEE'.

- 7. (a) Write one advantage and one disadvantage of e-learning to students.
 - (b) What precaution must be taken with regard to making payments while shopping online?

2

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2

(c) James works for a Garments company. He has created a form for the employees. Help him choose most appropriate controls from ListBox, ComboBox, TextField, TextArea, RadioButton, Checkbox, Label and Command Button for the following entries:

S. No.	Function
1.	To enter first name of employee
2.	To select gender (M/F)
3.	To choose category of employee (Permanent/Temporary)
4.	To allow entering remarks about the employee in the form of paragraph.

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Central Board of School Education

Marking Scheme 2015

[Official]

CBSE AISSCE 2015 Marking Scheme for Informatics Practices

(Sub Code:065 Paper Code 90/1 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:
 - O Both ways of text/character entries should be acceptable. For example: "AMAR" and 'amar' both are acceptable.
 - 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.
 - O Semicolon should be ignored for terminating the SQL statements.
 - Ignore case sensitivity for commands.
 - Ignore headers in output questions.

1	(a)	A company has 3 departments namely Administrative, Sales,	1				
		Production. Out of telephone cable, Optical Fiber, Ethernet					
		Cable, which communication medium is best for speed communication between departments?					
	Ans						
	Alls	Optical Fiber					
		(1 mark for correct answer)					
	(B)	Name one Open Source Indian Operating System.	1				
	Ans	BOSS					
		OR					
		Bharat Operating Systems Solutions					
		(1 mark for any correct purpose)					
	(c)	What is the purpose of a Server in a network?					
	Ans	A server manages network resources in a network.					
		(1 mark for correct answer)					
	(d)	What do the following top level domains signify?	1				
		(i) .com					
		(ii) .org					
	Ans	(i) .com - Commercial					
		(ii) .org - Organization					
		Note: Non-Profit Organization should also be accepted.					

	(½ mark for each correct answer)		
(e)	List 2 measures to secure a network.		2
Ans	Measures to secure a network are: Use of (i) Login-Password (ii) Firewall (iii) Anti Virus Software (iv) File permissions OR Any other correct measure.		
	(1 mark each for any 2 correct measure	es)	
(f)	Distinguish between MAC address and IP example of each.	address with the help of	2
Ans	address e.g. 00.A0.C9:14:C8:35 is a unique 12 digit hexadecimal number assigned address	(Internet Protocol) s e.g. 192.168.0.2 is a cal label that is ed to a device cating in a computer k using Internet	
	Can never be changed. Can be	e changed.	
	(1 mark for any 1 correct difference)		
(g)	(1 mark for any 1 example of each) Distinguish between Phonetic text entering entry of typing Indian language text.	try and keymap based	2
Ans	Phonetic text entry In Phonetic text entry, In to traditional keyboards with key English keys are used. While to styping, letters are typed India	his method the board keys are mapped pecific characters of an language using a map.	

	1		
		(2 marks for correct difference)	
		OR	
		(2 marks for explaining the difference with the help of	
		example of each)	
2	(a)	Write the value of t after the execution of the following code:	1
		int t;	
		int s;	
		s=6;	
		t = (8 * s++) % 7 ;	
	Ans	6	
		(1 mark for correct answer) OR	
		(1/2) mark to be awarded if 0 is given as answer on account of	
		student's knowledge about * and % operators)	
	(b)	Which tag is used to display a horizontal rule on a web page?	1
	Ans	<hr/>	
		OR	
		HR	
		(1 mark for correct answer)	
	(c)	In a SWITCH statement, what is the purpose of BREAK statements?	1
	Ans	A BREAK statement causes control to exit the SWITCH	
		statement.	
		(1 mark for correct answer)	
	(d)	Identify the error in the following HTML code.Rewrite the	1
	, X	correct code.	
		<ul start="4" type="a">	
	Ans	<ol start="4" type="a">	
	Ť	OR	
		<ul type="circle">	
		OR	
		<ul type="disc">	
		OR	
		<ul type="Square">	

	(1 mark for correct answer)	
	OR	
	(½ mark for only identifying error)	
(e)	Write Java code to assign the value 70 to variable y. Then	2
	decrease the value of y by 5 and store it in variable z.	
Ans	y = 70;	
	z = y - 5;	
	OR	
	y = 70;	
	y = y - 5;	
	z = y;	
	OR	
	y = 70;	
	OR	
	y = 70;	
	y -= 5;	
	z = y;	
	(½ mark for assigning 70 to y)	
	(1 mark for decreasing value of y by 5)	
(6)	(½ mark for assigning decreased value to z)	
(f)	Write the output that will be generated by the code given below:	2
	int t;	
	int i;	
	for (i = 5; i <=10; i = i+5)	
	{	
	t = i+3;	
	System.out.println(" "+t);	
Ans	8	
71115	13	
	(1 mark for each correct line of output)	
	OR	
	(Full 2 marks to be given if 8 13 mentioned in the same line.)	
	OR	
	(Full 2 marks to be awarded, if any Question 2 is attempted	
	correctly.)	

	(g)	"With XML you invent your own tags." Explain this statement with the help of 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></name>	
		(2 marks for explanation with the help of example) OR (Full 2 marks should be awarded if only explanation is given)	
3	(a)	Sharmila wants to make the database named 'COMPANY' active and display the names of all the tables in it. Write MySQL commands for it.	1
	Ans	USE COMPANY; SHOW TABLES; (1/2 mark for each correct part)	
	(b)	Write SQL command to remove column named 'Hobbies' from a table named 'Student'.	1
	Ans	ALTER TABLE Student DROP Hobbies; OR ALTER TABLE Student DROP (Hobbies);	
		(½ mark for ALTER TABLE) (½ mark for DROP)	
	(c)	Rewrite the following SQL statement after correcting error(s). Underline the corrections made. INSERT IN EMP(EMPNO, SALES) VALUE (100, 20078.50);	1
	Ans	INSERT INTO EMP (EMPNO, SALES) VALUES (100, 20078.50);	
		 (½ mark for correcting INTO) (½ mark for correcting VALUES) Note: ½ mark for only identifying errors. ½ mark to be awarded if the following is mentioned as correct statement: INSERT INTO EMP VALUES (100, 20078.50); 	
	(d)	A table STUDENT has 5 rows and 3 columns. Table ACTIVITY has 4 rows and 2 columns. What will be the cardinality and degree of the Cartesian product of them?	1

Ans	Cardinality=20 Degree=5	
	(½ mark for Cardinality) (½ mark for Degree)	
(e)	Name the SQL commands used to: (i) Physically delete a table from the database. (ii) Display the structure of a table.	2
Ans	DROP TABLE OR DROP TABLE <table name="">; (ii) DESCRIBE OR DESC OR DESCRIBE <table name="">; OR DESCRIBE <table name="">; OR</table></table></table>	
(f)	(1 mark each for both parts) Write one similarity and one difference between UNIQUE and PRIMARY KEY constraints.	2
Ans	Similarity: The UNIQUE and PRIMARY KEY constraints both ensure uniqueness of values for a column or set of columns. Difference: Primary key cannot have NULL value, but Unique key may be NULL.	
	(1 mark for one correct similarity) (1 mark for any one correct difference) OR (2 marks for only defining Primary Key)	
(g)	What effect does SET AUTOCOMMIT have in transactions?	2
Ans	If AUTOCOMMIT is set to 1, each SQL statement is considered a complete transaction and committed by default when it finishes. If AUTOCOMMIT is set to 0, the subsequent series of statements acts like a transaction and no transaction is committed until an	

		explicit COMMIT statement is issued.	
		(1 mark for correct effect of AUTOCOMMIT set to 1) (1 mark for correct effect of AUTOCOMMIT set to 0)	
4	(a)	<pre>The following code has some error(s). Rewrite the correct code underlining all the corrections made. int written, interview; written = Integer.parselnt(jTextFieldl.getText()); interview = Integer.parselnt(jTextField2.getText()); if (written <80) OR (interview <15) { System.out.println(Not selected); } Else; { System.out.println("Selected"); }</pre>	2
	Ans	<pre>int written, interview; written = Integer.parseInt(jTextField1.getText()); interview = Integer.parseInt(jTextField2.getText()); if ((written <80) </pre>	

```
How many times will the following loop execute:
(b)
      int z = 7, sum = 0;
      do
      {
          sum = sum + z;
          z = z+2;
          System.out.println(" "+z);
     while (z \le 12);
Ans
     3 times
     (2 Marks for correct no.of times)
     Rewrite the following program code using IF ELSE IF instead of
(c)
     SWITCH statement.
      String rem;
      int code =
      Integer.parseInt(jTextFieldl.getText());
     Switch (code)
      case 1:
                      = "Classes start on
                                            8th April";
                rem
                break;
      case 2:
                      = "Classes start on
                                           loth April";
                rem
                break;
      case 3:
                     = "Classes start on 12th April" ;
                rem
                break;
      default:
               rem = "Contact Admin Office";
Ans
     String rem;
     int code =
     Integer.parseInt(jTextField1.getText());
      if (code==1)
         rem = "Classes start on 8th April";
     else if (code==2)
         rem = "Classes start on 10th April";
     else if (code==3)
        rem = "Classes start on 12th April";
     else
      rem = " Contact Admin Office";
```

	(½ mark for correct use of if -else statement)	
	(½ mark for each correct condition)	
	(/2 mark jor caen correct continue)	
(d)	<pre>Write the values of sum and t after execution of the following code: int sum, t; sum = 27;</pre>	2
	t = 3;	
Ans	sum = sum + 2 * (++t); sum = 35 t = 4	
	(1 Mark for correct value of sum) (1 Mark for correct value of t)	
(e)	<pre>What will be the contents of jTextField1 and jTextField2 after executing the following code : String s = "Best"; String r = "Luck"; String Z; Z = r.concat(s); jTextField1.setText(z); jTextField2.setText(r.toUpperCase());</pre>	2
Ans	jTextField1 = LuckBest	
Alla	jTextField2 = LUCK	
	(1 mark for each correct output)	
(5)		
(f)	Seema is a junior programmer at 'Avon Shoe Factory'. She has created the following GUI in Netbeans. AVON SHOE FACTORY	
	 3 items namely Shoes, Sandals and Slippers are manufactured by the factory. A buyer can buy more than one item at a time. Each pair of shoes costs Rs. 1,500.00, each pair of sandals costs Rs. 1,000.00 and each pair of slippers cost Rs. 500.00. 	

	The item bought will be selected by the user and the Quantity	
	(number of pairs) bought will be entered by the user.	
	Amount to be paid for that item will be displayed in front of	
	the item.	
	For example if 'Shoe' is selected and Quantity entered is 20,	
	then Amount should be displayed as 30000.	
	Help Seema write code for the following:	
(a)	When 'Calculate' button is clicked, the amount should be	3
	displayed in front of each item (in the appropriate textfield)	
	and Total amount (sum total of all the amounts) should be	
	displayed in the appropriate' textfield.	
Ans	float qty1=0, qty2=0, qty3=0, amt1=0, amt2=0,	
	amt3=0, total;	
	if(jCheckBox1.isSelected())	
	<pre>qty1=Float.parseFloat(jTextField1.getText());</pre>	
	if(jCheckBox2.isSelected())	
	qty2=	
	<pre>Float.parseFloat(jTextField2.getText());</pre>	
	<pre>if(jCheckBox3.isSelected())</pre>	
	qty3=	
	<pre>Float.parseFloat(jTextField3.getText());</pre>	
	amt1= qty1*1500;	
	amt2=qty2*1000;	
	amt3=qty3*500;	
	total=amt1+amt2+amt3;	
	jTextField4.setText(""+amt1);	
	<pre>jTextField5.setText(""+amt2);</pre>	
X	<pre>jTextField6.setText(""+amt3);</pre>	
	<pre>jTextField7.setText(""+total);</pre>	
	(½ mark for correct use of getText())	
	(1 mark for checking conditions)	
	(1 mark for Calculation of Amount and Total Amount)	
	($\frac{1}{2}$ mark for displaying correct values in the text fields)	
(b)		1
(-)	When Clear button is clicked, all the Textfields and Checkboxes	
	should be cleared.	

	Ans	T				
	7113	jTextField1.setText(""				
		jTextField2.setText("");			
		jTextField3.SetText("");			
		jCheckBox1.setSelected	(false);			
		Note: NULL in place of " " s	hould also be accepted.			
		($\frac{1}{2}$ mark for clearing any o	one text field)	ľ		
		(½ mark for clearing any o				
	(c)	When Stop button is clicked, t	the application should close.	1		
	Ans	System.exit(0);				
		(1 mark for correct answer)				
5	(a)	Write one similarity and one difference between CHAR and VARCHAR data types.				
	Ans	Similarity:				
		 Both are used for storir 	ng non numeric data.			
		Both can store 1 to 255	characters.			
		 Values must be enclose 	ed in single quotes or double			
		quotes.				
		Difference :				
		CHAR	VARCHAR			
		Used for fixed-length string	Used for variable-length string			
		Padded to the specified	No padding takes place			
	6.3	length when stored				
	X					
		(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.				
	(b)	Consider the following table r	named "GARMENT". Write command			
	(-)	of SQL for (i) to (iv) and output				
	<u> </u>	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	` ' '			

	Tabe : GA	PMFNT				
	GCODE	GNAME	SIZE	COLOUR	PRICE	
	111	TShirt	XL	Red	1400.00	
	112	Jeans		Blue	1600.00	
	113	Skirt	l _M	Black	1100.00	
	114	Ladies Jacket		Blue	4000.00	
	115	Trousers	L	Brown	1500.00	
	116	Ladies Top	L	Pink	1200.00	
			•	1		
(i)	To displa	y names of tho	se garments	that are av	ailable in 'XL'	1
Ans		GNAME FROM GA	ARMENT		CO.	
	,	for SELECT)				
(22)	,	• •		C		1
(ii)		y codes and nar arting with 'Ladi		garments t	hat have their	1
Ans	SELECT GCODE, GNAME FROM GARMENT					
		AME LIKE 'Lac		IN I		
	(½ mark for SELECT) (½ mark for LIKE)					
(iii)	that have	y garment name price in the ra .00 included).	•	•	those garments (both 1000.00	1
Ans	SELECT O	SCODE, GNAME,	PRICE FRO	M GARMENT		
		RICE BETWEEN				
		VICE DEIMERN	TOOO AND	1300,		
	OR					
		GCODE, GNAME, RICE>=1000 AN				
	(½ mark	for SELECT)				
	`	for BETWEEN (OR >= and	<=)		
(iv)	To change	e the color of ga	arments with	n code as 11	6 to "Orange".	1

	Ans	IIDDATE CARMENT SET COLOUR - \0~~~~/					
		UPDATE GARMENT SET COLOUR = 'Orange' WHERE GCODE = 116;					
		OR					
		UPDATE GARMENT SET COLOUR = 'Orange'					
		WHERE GCODE = \116';					
		WHERE GCODE = '116';					
		($1/2$ mark for correct use of UPDATE SET)					
		1½ mark for WHERE)					
	(v)						
	(*)	SELECT COUNT (DISTINCT (SIZE)) FROM GARMENT;					
	Ans	3					
		(1 mark for correct output)					
	(vi)	SELECT AVG (PRICE) FROM GARMENT;	1				
	Ans	1800					
		(1 mark for correct output)					
	(vii)	SELECT GNAME FROM GARMENT WHERE SIZE IN ('M','L') AND PRICE>15.0;					
	Ans	Jeans					
		(1 mark for correct output)					
	(c)	What is the degree and cardinality of 'Garment' table?	1				
	Ans	Degree = 5 , Cardinality = 6					
		(½ mark each for correct Degree and Cardinality)					
6	(a)	Write MySql command to create the table DEPARTMENT with	2				
	. 44	given constraints					
	X	T.I. DEDARTMENT					
		Table : DEPARTMENT COLUM NAME DATATYPE (SIZE) CONSTRAINT					
		COLUM_NAMEDATATYPE (SIZE)CONSTRAINTDepartment IDint(4)Primary key					
		DepName varchar (50) Not Null					
		Manager ID char (4)					
		Location varchar (30)					

Ans	CREATE TABLE	DEDADOMENO			
	,	DEPARIMENT			
	DEPARTMENTID INT (4) PRIMARY KEY,				
	DEPNAME	VARCHAR (50) NOT	NULL,		
	MANAGER	ID CHAR(4),			
	LOCATIO	N VARCHAR (30)			
);				
	(½ mark for C	,			
	(½ mark for Co	olumn Names with Dat	a Types)		
	(½ mark for PF	RIMARY KEY Constrai	int)	~O`	
	(½ mark for NO	T NULL Constraint)		G	
(b)	In a Database, t	there are two tables g	iven below:	*	
` ´	Table : EMPLOY	_			
	EMPLOYEEID	NAME	SALES	JOBID	
	E1	SAMIT SINHA	1100000	102	
	E2	VIJAY SINGH TOMAR	1300000	101	
	E3	AJAY RAJPAL	1400000	103	
	E4	MOHIT RAMNANI	1250000	102	
	E5	SHAILJA SINGH	1450000	103	
	Table : JOB	. C-+	•		
	JOBID	JOBTITLE	SALARY	′	
	101	President	200000)	
	102	Vice President	125000)	
	103	Administration Assist	tant 80000		
	104	Accounting Manager			
	105	Accountant	65000		
	106	Sales Manager	80000		
	. \ \ \				
	Write SQL Quer	ries for the following:			
(i)	To display empl	loyee ids, names of en	nployees, jo	b ids with	2
	corresponding j				

	Ans	SELECT EMPLOYEEID, NAME, E.JOBID, JOBTITLE			
		FROM EMPLOYEE E, JOB J			
		WHERE E.JOBID = J.JOBID;			
		OR			
		SELECT EMPLOYEEID, NAME, J.JOBID, JOBTITLE			
		FROM EMPLOYEE E, JOB J			
	WHERE E.JOBID = J.JOBID;				
	OR				
		SELECT EMPLOYEEID, NAME, EMPLOYEE. JOBID, JOBTITLE			
		FROM EMPLOYEE, JOB			
		WHERE EMPLOYEE.JOBID = JOB.JOBID;			
		(½ mark for SELECT)			
		(½ mark for FROM)			
		(1 mark for correct use of join)			
-	(ii)		2		
	(11)	To display names of employees, sales and corresponding job	~		
		titles who have achieved sales more than 1300000.			
	Ans	SELECT E.NAME, E.SALES, J. JOBTITLE			
		FROM EMPLOYEE E, JOB J			
		WHERE E.JOBID = J.JOBID AND E.SALES > 1300000;			
		OR			
		SELECT NAME, SALES, JOBTITLE			
		FROM EMPLOYEE, JOB			
		WHERE EMPLOYEE.JOBID = JOB.JOBID			
		AND SALES > 1300000;			
		OR			
		SELECT NAME, SALES, JOBTITLE			
		FROM EMPLOYEE , JOB			
	X	WHERE EMPLOYEE.JOBID = JOB.JOBID			
		AND EMPLOYEE.SALES > 1300000;			
		(½ mark for SELECT)			
		(½ mark for FROM)			
		(½ mark for JOIN)			
		(½ mark for CONDITION)			
	(222)	,			
	(iii)	To display names and corresponding job titles of those	2		
		employee who have 'SINGH' (anywhere) in their names.			
	<u> </u>				

Ans		
	SELECT E.NAME, U.UOBTITLE	
	FROM EMPLOYEE E, JOB J	
	WHERE E.JOBID = J.JOBID AND NAME LIKE	
	\%SINGH%';	
	OR	
	SELECT NAME, JOBTITLE	
	FROM EMPLOYEE, JOB	
	WHERE EMPLOYEE.JOBID = JOB.JOBID	
	AND NAME LIKE '%SINGH%';	
	OR	
	SELECT NAME, JOBTITLE	
	FROM EMPLOYEE E, JOB J	
	WHERE E.JOBID = J.JOBID AND NAME LIKE '%SINGH%'	
	(1)	\dashv
	(½ mark for SELECT)	
	(½ mark for FROM)	
	(½ mark for use of JOIN)	
	(½ mark for CONDITION)	
(iv)	Identify foreign key in the table EMPLOYEE.	1
Ans	JOBID .	
	(1 mark for correct answer)	
	(Timark jor correct answer)	
(v)	Write SQL command to change the JOBID to 104 of the	1
	Employee with ID as E4 in the table 'EMPLOYEE'	
Ans		\dashv
	OPDATE EMPLOIEE	
	SET JOBID = 104 WHERE EMPLOYEEID = 'E4';	
	OR	
	UPDATE EMPLOYEE	
	SET JOBID = '104' WHERE EMPLOYEEID = 'E4';	
	(½ mark for correct use of UPDATE SET)	
	(½ mark for WHERE)	

7	(a)	Write one advantage and one disadvantage of e-leaming to	2				
		students.					
	Ans	Advantages					
		Students can					
		 learn at their own pace. 					
		• learn at any age.					
		 study anywhere provided they have access to a computer 					
		and Internet connection					
		 assess themselves and take feedback to enhance their 					
		learning.	Ť				
		Disadvantages					
		 As teacher-student personal interaction is absent, 					
		learners with low motivation or bad study habits may fall					
		behind.					
		Slow Internet connections may make accessing e-learning					
		course material difficult.					
		(1 mark for any one correct advantage)					
		(1 mark for any one correct disadvantage)					
	(b)	What precaution must be taken with regard to making 1					
		payments while shopping online?					
	Ans	Share payment information only with known or reputable					
		vendors					
		 Before entering any personal or payment information, make sure that the URL should start with http 					
		Look for a small lock icon in web browser.					
		(1 mark for ANY one correct precaution)					
	(c)		2				
		James works for a Garments company. He has created a form					
		for the employees. Help him choose most appropriate controls					
	6.3	from ListBox, ComboBox, TextField, TextArea, RadioButton,					
	X	Checkbox, Label and Command Button for the following					
		entries:					
		S.No. Function					
		1 To enter first name of employee					
		2 To select gender (M/F) 3 To choose gender of employee					
		To choose gender of employee (Permanent/Temporary)					
		4 To allow entering remarks about the employee in					
		the form of paragraph.					
			ш				

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S.No.	Function	Control
1	To enter first name of employee	TextField
2	To select gender (M/F)	RadioButton/ ComboBox
3	To choose category of employee (Permanent/Temporary)	RadioButton/ ComboBox
4	To allow entering remarks about the employee in the form of paragraph.	TextArea
(1/2 mark	for each correct answer)	
9.119	chools.	
	1 2 3 4 (1/2 mark	1 To enter first name of employee 2 To select gender (M/F) 3 To choose category of employee (Permanent/Temporary) 4 To allow entering remarks about the