SET - 4

2

2

Series: ONS/1 Code No.	90/1
------------------------	------

				 , Candidates must
Roll No.				the title page of t

Candidates must write the Code on the 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) Two doctors have connected their mobile phones to transfer a picture file of a person suffering from a skin disease. What type of network is formed? Which communication media out of Coaxial cable, Optical fiber, Bluetooth, Satellite link should be used to transfer the file?
 - (b) State reason why Star topology requires more cable length than Bus topology. 2
 - (c) "Open Source Software developers work for the good of community". Is this statement true? Give reason.
 - (d) What happens during 'Domain Name Resolution'?
 - (e) How is 'Denial of service' attack, a threat to Network security?
- 2. (a) Identify the odd one out of the following statements. State reason for your choice. 1
 - (i) switch
 - (ii) do while
 - (iii) while
 - (iv) for

```
(b) What is the difference between setVisible() and setEnabled() methods?
```

(c) What is the difference between the following statements (i) and (ii).

1

1

1

2

1

1

1

```
(i) a=5;
```

```
(ii) if (a = 5)
 x=3;
```

(d) Write the output in ¡TextField1 if depcode is 3.

```
switch (depcode)
{
    case 1 :
        allowance=4000;
        break;
    case 2 :
        allowance=3200;
        break;
    default :
        allowance=1000;
    }
    jTextFieldl.setText( " " +allowance);
```

- (e) Sandhya is creating a webpage. She is entering HTML code on her computer. In between, she keeps pressing 'Refresh' / 'Reload' button on her browser. What is the purpose?
- (f) What does 'XML' stand for ? How is the purpose of HTML different from XML? 2
- (g) Write Java code (statements) to declare Y as integer variable. Then, assign the value 30 to a variable Y. Increase the value of Y by 5 and store the increased value in Z.
- 3. (a) What is MySQL?

(b) Charvi is inserting "Sharma" in the "LastName" column of the "Emp" table but an error is being displayed. Write the correct SQL statement.

```
INSERT INTO Emp('Sharma')VALUES(LastName) ;
```

(c) Kunal created the following table with the name 'Friends':

Table: Friends

FriendCode	Name	Hobbies
F101	Bijoy	Swimming
F102	Abhinav	Reading books
F103	Jyotsna	Dancing

Now, Kunal wants to delete the 'Hobbies' column. Write the MySQL statement.

90/1 2

(d) Mrs. Sen entered the following SQL statement to display all Salespersons of the cities "Chennai" and 'Mumbai' from the table 'Sales'.

Table: Sales

Scode	Name	City
101	Aakriti	Mumbai
102	Aman	Chennai
103	Banit	Delhi
104	Fauzia	Mumbai

```
SELECT * FROM Sales
WHERE City='Chennai'
AND City='Mumbai';
```

Rewrite the correct statement, if wrong or write statement is correct.

2

2

- (e) (i) Name two Aggregate (Group) functions of SQL.
 - (ii) Consider the table:

Table: Company

SID	SALES
S101	20000
S103	NULL
S104	10000
S105	15000

What output will be displayed by the following SQL statement?

SELECT AVG(SALES) FROM Company;

(f) Given below is the 'Stu' table:

RNO	NAME
1	Amit
2	Bhishm

The following statements are entered:

```
SET AUTOCOMMIT = 0;
INSERT INTO Stu VALUES(5, 'Rahul');
COMMIT;
UPDATE Stu set name='Rahuliya' where Rno= 5;
SAVEPOINT A;
INSERT INTO Stu VALUES(6, 'Cristina');
SAVEPOINT B;
INSERT INTO Stu VALUES(7, 'Fauzia');
SAVEPOINT C;
ROLLBACK TO B;
```

Now what will be the output of the following statement?

SELECT * FROM Stu;

1

1

2

2

2

Table: Hotel

EMPID	Category	Salary
E101	MANAGER	60000
E102	EXECUTIVE	65000
E103	CLERK	40000
E104	MANAGER	62000
E105	EXECUTIVE	50000
E106	CLERK	35000

Mr. Vinay wanted to display average salary of each Category. He entered the following SQL statement. Identify error(s) and Rewrite the correct SQL statement.

```
SELECT Category, Salary FROM Hotel
GROUP BY Category;
```

- 4. (a) When is if-else if statement preferred over switch statement?
 - (b) What is the purpose of break statement?
 - (c) What will be displayed in jTextField1 and jTextField2 after the following code is executed:

```
int t;
int s;
s = 2;
t = (4*s++)/2;
jTextField1.setText(" "+t);
jTextField2.setText(" "+s);
```

(d) Write the contents of jTextField1, jTextField2, jTextField3 and jTextField4 when the following statements are executed:

```
String x;
String str = "Java";
x = str.concat ("study");
double a = 7.8765;
    jTextField1.setText (x.length()+" ");
    jTextField2.setText (x.toUpperCase () );
    jTextField3.setText (x.substring (2,5));
    jTextField4.setText (Math.round(7.8765)+" ");
```

(e) Rewrite the following code using WHILE loop:

```
int sum = 0;
for(int i=9;i>=1;i--)
{
   if(i%3==0)
      sum=sum + i;
   else
      sum=sum - i;
}
```

90/1 4

(f) The following code has error(s). Rewrite the correct code underlining all the corrections made :

```
int x=10;
int y=50;
do;
{
    x+5=x;
    y-5=y;
while(x<=y);</pre>
```

(g) Vijay has developed a software for planning personal budget. A screenshot of the same is shown below:

PER Total Income	SONAL BUDG	ET PLAN	
	EXPENSES		
Bills(Water/Electricity)			
Groceries			☐ Money to be sent to Hostel
Entertainment			
Other Expenses			
			A country of the
CALCULATE	CLEAR		CLOSE
SUM OF EXPENSES			
GRAND TOTAL OF EXPENSES			

Total Income, Expenses of Bills (Water/Electricity), Groceries, Entertainment, other expenses and whether money is to be sent to Hostel are entered by the user. Sum of Expenses, Grand Total of Expenses and Savings are calculated and displayed by the program.

Write the code to do the following:

- (i) When 'CALCULATE' button is clicked, Sum of Expenses, Total Expenses and Savings should be calculated and displayed in appropriate text fields. 3
 - Sum of Expenses is calculated by adding expenses on Bills (Water/Electricity), Groceries, Entertainment and other expenses.

• Grand Total of Expenses is calculated according to the following criteria:

If 'Money to be sent to Hostel' checkbox is selected, 3000.00 is to be added to the sum of expenses. If it is not selected, Grand Total of Expenses is the same as sum of expenses.

- Savings = Total Income Grand Total of Expenses.
- (ii) When 'CLEAR' button is clicked, all text fields and checkbox should be cleared.
- (iii) When 'CLOSE' button is clicked, the application should close.
- 5. (a) Anita has created the following table with the name 'Order'.

Table: Order

Column Name	Constraint
OrderId	Primary Key
OrderDate	Not Null
OrderAmount	
StoreId	

One of the rows inserted is as follows:

OrderId OrderDate		OrderAmount	StoreId	
O101	2015-02-12	34000	S104	

- (i) What is the data type of columns OrderId and OrderDate in the table Order?
- (ii) Anita is now trying to insert the following row:

OrderId OrderDate		OrderAmount	StoreId
O102	NULL	59000	S105

Will she be able to successfully insert it? Give reason.

(b) Write the output of the following SQL queries :

2

1

2

- (i) SELECT MID ('BoardExamination', 2, 4);
- (ii) SELECT ROUND (67.246, 2);
- (iii) SELECT INSTR('INFORMATION FORM', 'FOR');
- (iv) SELECT DAYOFYEAR ('2015-01-10');

2

2

Table: Store

StoreId	Name	Location	City	NoOfEmployees	DateOpened	SalesAmount
S101	Planetfashion	KarolBagh	Delhi	7	2015-10-16	300000
S102	Trends	Nehru	Mumbai	11	2015-08-09	400000
		Nagar				
S103	Vogue	Vikas	Delhi	10	2015-06-27	200000
		Vihar				
S104	Superfashion	Defence	Delhi	8	2015-02-18	450000
		Colony				
S105	Rage	Bandra	Mumbai	5	2015-09-22	600000

- (i) To display name, location, city, SalesAmount of stores in descending order of SalesAmount.
- (ii) To display names of stores along with SalesAmount of those stores that have 'fashion' anywhere in their store names.
- (iii) To display Stores names, Location and Date Opened of stores that were opened before 1st March, 2015.
- (iv) To display total SalesAmount of each city along with city name.
- (v) SELECT distinct city FROM store;
- (vi) SELECT Name, length (name), left (name, 3) FROM Store where NoOfEmployees<3;</pre>

6. (a) Write SQL query to create a table 'Event' with the following structure:

Field	Type	Constraint
EventId	Varchar(5)	PRIMARY KEY
EventName	Varchar(30)	NOT NULL
Location	Varchar(50)	
ClientID	Integer	
EventDate	Date	

(b) Consider the tables given below:

Table: Faculty

TeacherId	Name	Address	State	PhoneNumber
T101	Savita Sharma	A-151, Adarsh	Delhi	991019564
		Nagar		
T102	Deepak Ghai	K-5/52, Vikas	Mumbai	893466448
	_	Vihar		
T103	MahaLakshmi	D-6	Delhi	981166568
T104	Simi Arora		Mumbai	658777564

Table: Course

CourseId	Subject	TeacherId	Fee
C101	Introductory Mathematics	T101	4500
C103	Physics	T101	5000
C104	Introductory Computer Science	T102	4000
C105	Advance Computer Science	T104	6500

- (i) Which column is used to relate the two tables?
- (ii) Is it possible to have a primary key and a foreign key both in one table? Justify your answer with the help of table given above.

90/1 7 [P.T.O.

- (c) With reference to the above given tables, write commands in SQL for (i) and (ii) and output for (iii):
 - (i) To display CourseId, TeacherId, Name of Teacher, Phone Number of Teachers living in Delhi.
 - (ii) To display TeacherID, Names of Teachers, Subjects of all teachers with names of Teachers starting with 'S'.
 - (iii) SELECT CourseId, Subject, TeacherId, Name, PhoneNumber FROM Faculty, Course WHERE Faculty. TeacherId = Course. TeacherId AND Fee>=5000;
- 7. (a) "In e-Business, customers should shop only when they trust the e-store provider for payment methods"-Justify the statement.
 - (b) Which of the following statements is NOT true in e-Governance? Rewrite the statement after correcting it.
 - (i) Online applications and tracking of status of applications should be provided.
 - (ii) Citizens should not be required to submit documents in physical form.
 - (iii) Online Forms should be made tricky so that only well educated users can enter data.
 - (iv) Government should interact with citizens and enlighten them about different schemes through social media and web based platforms.
 - (c) Ms. Arora is creating a form for accepting Visa applications. Help her to choose most appropriate controls out of ListBox, ComboBox, TextField, TextArea, RadioButton, CheckBox, Label and CommandButton for the following entries: 2

RadioBat	ton, eneckbox, Easer and commandbatton for the following entries:
S. NO.	Function
1.	To enter EMAIL ID
2.	To choose GENDER
3.	To enter NATIONALITY from countries given as options.
4.	To enter REMARKS in the form of a paragraph about the purpose of visit.

90/1 8

(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 circumstance.
- The answers given in the marking scheme are SUGGESTIVE, Examiners are expected 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)	Two doctors have connected their mobile phones to transfer a picture file of a person suffering from a skin disease. What type of network is formed? Which communication media out of Coaxial cable, Optical fiber, Bluetooth, Satellite link should be used to transfer the file?	2
	Ans	PAN Bluetooth	
		(1 mark each for each correct answer)	
	(b)	State reason why Star topology requires more cable length than Bus topology.	2
	Ans	Star topology involves a central hub or switch to which all individual node(s) are connected with individual cable, therefore more cable is required in Star topology than Bus topology.	
		(2 marks for correct answer) Note: Full 2 marks to be allotted if reason represented with the help of diagram	
	(c)	"Open Source Software developers work for the good of community". Is this statement true? Give reason.	2
	Ans	Yes, the above statement is true. • Open source developers choose to make the source code of their software publicly available to which many developers can view/use the software and also modify it. • Users can download the software free of cost. So, they work for the good of the community.	

	1		1
		(1 mark for stating 'Yes') (1 mark for correct reason)	
	(d)	What happens during 'Domain Name Resolution'?	2
	Ans	The process of translating a domain name to an IP address is called Domain name resolution.	
		(2 marks for correct answer) Note: Full 2 marks to be allotted if reason is represented with the help of example.	
	(e)	How is 'Denial of service' attack, a threat to Network security?	2
	Ans	Denial-of-service (DoS) is an indication that an attacker (hacker) or unauthorised user has attempted to connect/access data and thus suggests a threat on network security.	
		(2 marks for correct answer) Note: 1½ mark for only stating what is DoS.	
2	(a)	Identify the odd one out of the following statements. State reason for your choice. i) switch ii) do while iii) while iv) for	1
	Ans	i) switch switch is a selection statement but others are looping / iteration statements.	
		(½ mark for identifying) (½ mark for reason)	
	(b)	What is the difference between setVisible() and setEnabled() methods?	1
	Ans	setVisible() sets the visibility of a component i.e. whether the component will be visible or hidden on form. setEnabled() sets whether the component can trigger an event or not.	
		(1 mark for correct answer) Note: Full 1 mark to be allotted if difference explained with the help of example.	
	(c)	What is the difference between the following statements i) and (ii) i) $a = 5$; ii) if $(a = 5)$ $x = 3$;	1
	Ans	In i) variable a is being assigned the value 5 whereas in ii) a is being checked for equality with 5 OR In i) assignment operator is used and in ii) relational operator '==' is used.	
		(1 mark for mentioning correct difference)	
	(d)	Write the output in jtextField1 if depcode is 3.	1
	. , ,	' ' '	

```
switch(depcode)
                       case 1 :
                            allowance = 4000;
                            break:
                       case 2 :
                            allowance = 3200;
                            break:
                        default :
                            allowance = 1000;
                jTextField1.setText(" "+allowance);
           1000
   Ans
           (1 mark for correct answer)
                                                                               2
           Sandhya is creating a webpage. She is entering HTML code on her
   (e)
           computer. In between, she keeps pressing 'Refresh'/ 'Reload' button
           on her browser. What is the purpose?
           The purpose of 'Refresh'/'Reload' is to view the changes in the
   Ans
           webpage.
           (2 marks for correct answer)
                                                                               2
           What does 'XML' stand for? How is the purpose of HTML different
   (f)
           from XML?
           XML stands for eXtensible Markup Language.
   Ans
           HTML is used to create web pages / display data whereas XML is used
           to describe/store/transport data.
           (1 mark for expanding XML)
           (1 mark for correct difference)
           Note: Full 1 mark to be allotted if purpose of only HTML is
           specified.
                                                                               2
           Write Java code (statements) to declare Y as integer variable. Then,
   (g)
           assign the value 30 to a variable Y. Increase the value of Y by 5 and
           store the increased value in Z.
   Ans
           int Y;
           Y = 30;
           Y = Y + 5;
           z = y;
           (1/2 mark for declaring Y)
           (1/2 mark for initialising Y to 30)
           (½ mark for incrementing the value of Y)
           (\frac{1}{2} mark for assigning the final value to Z)
                                                                               1
3
           What is MySQL?
   (a)
   Ans
           MySQL is a Relational Database Management System.
           (1 mark for correct answer)
```

CBSE AISSCE 2016 Marking Scheme for Informatics Practices (Sub Code: 065 Paper Code 90/1 Delhi)

	Note: ½ mark to be awarded if only 'Opmentioned	pen Source Software' is
(b)	Charvi is inserting "Sharma" in the "LastNartable but an error is being displayed. statement. INSERT INTO Emp(\Sharma') VALUES	Write the correct SQL
Ans	INSERT INTO Emp(Lastname) VALUES	(`Sharma') ;
	(1 mark for correct answer)	
(c)	Kunal created the following table with the FriendCode Name Hobbies F101 Bijoy Swimmir F102 Abhinav Reading F103 Jyotsna Dancing Now, Kunal wants to delete the 'Hobbies' statement.	ng books
Ans		
	(½ mark for ALTER TABLE) (½ mark for DROP Hobbies) OR (½ mark for just mentioning ALTER TABLE)	LE command)
(d)	Mrs. Sen entered the following SQL st Salespersons of the cities "Chennai" and 'Sales'. Table:Sales Scode Name City 101 Aakriti Mumbai 102 Aman Punjab 103 Banit Delhi 104 Fauzia Mumbai SELECT * FROM Sales WHERE City='Chennai' AND City='Mumbai'; Rewrite the correct statement if wrong correct.	'Mumbai' from the table
Ans	SELECT * FROM Sales WHERE City='Chennai' OR City='Mumbai'; OR SELECT * FROM Sales WHERE City='Chennai' City='Mumb OR SELECT * FROM Sales WHERE City IN ('Chennai', 'Mumbai	

CBSE AISSCE 2016 Marking Scheme for Informatics Practices (Sub Code: 065 Paper Code 90/1 Delhi)

	(1 mark for correct SQL statement) Note: ½ mark to be allotted if only error is identified.	
(e)	i) Name 2 Aggregate (Group) functions of SQL.	2
	SUM(), MAX(), MIN(), AVG(), COUNT(), COUNT(*) (Any Two)	
	(½ mark each for any 2 Group functions) Note: Function names without parentheses also to be accepted as correct answers.	
	ii) Consider the table:	
	Table: Company	
	SID SALES	
	S101 20000	
	S103 NULL	
	S104 10000	
	S105 15000	
	What output will be displayed by the following SQL statement?	
	SELECT AVG(SALES) FROM Company;	
Ans	15000	
	(1 mark for correct answer)	
(f)	Given below is the 'Stu' table:	2
(1)	RNO NAME	
	1 Amit	
	2 Bhishm	
	The following Statements are entered:	
	SET AUTOCOMMIT = 0;	
	INSERT INTO Stu VALUES(5,'Rahul');	
	COMMIT;	
	UPDATE Stu set name='Rahuliya' where Rno= 5;	
	SAVEPOINT A;	
	<pre>INSERT INTO Stu VALUES(6,'Cristina');</pre>	
	SAVEPOINT B;	
	<pre>INSERT into Stu values(7,'Fauzia');</pre>	
	SAVEPOINT C;	
	ROLLBACK TO B;	
	Now what will be the output of the following statement:	
	SELECT * FROM Stu;	
Ans		
	RNO NAME	
	1 Amit	
	2 Bhishm	
	5 Rahuliya	
	6 Cristina	
	(½ mark for each row)	
(~)		2
(g)	Consider the table 'Hotel' given below.	

		Table : H	Hotel			
			EMPID	Category	Salary	
			E101	MANAGER	60000	
			E102	EXECUTIVE	65000	
			E103	CLERK	40000	
			E104	MANAGER	62000	
			E105	EXECUTIVE	50000	
			E106	CLERK	35000	
		entered the corre SELECT FROM Ho	the following ect SQL state Category,	SQL statement. Ide ment. Salary	ry of each Category. He entify error(s) and Rewrite	
	Ans			, AVG(Salary)		
	7 11.15	FROM H		, (502027)		
		GROUP	BY Catego:	ry;		
		OR	s for correct for only ide	answer) ntifying error)		
4	(a)	When is	if-else if sta	tement preferred ov	ver switch statement?	1
	Ans	• Wh	en range che	operators have to cks has to be done s other than int & cl		
		(1 mark	for any one	correct point)		
	(b)	What is t	the purpose o	of break statement?		1
	Ans			erminates the loop nent following the lo	o / switch and transfe oop / switch .	rs
		Note : F	t for correct full 1 mark to is mentioned	be allotted if "br	eak terminates the loop	/
	(c)	following int t; int s;	g code is exe		and jTextField2 after th	ne 1
		s = 2;	*a++\ /O ·			
		-	*s++)/2; ield1 se+T	ext(" "+t);		
		_		ext(" "+t); ext(" "+s);		
	Ans		displayed in			
	Alls	3 will be	displayed in	jTextField2		
		(½ mark	t for each co	rrect answer)		

```
2
       Write the contents of jTextField1, jTextField2, jTextField3 and
(d)
       ¡TextField4 when the following statements are executed:
       String x;
       String str = "Java";
       x = str.concat("study");
       double a = 7.8765;
       jTextField1.setText(x.length()+" ");
       jTextField2.setText(x.toUpperCase());
       jTextField3.setText(x.substring(2,5));
       jTextField4.setText(Math.round(7.8765)+" ");
       iTextField1: 9
Ans
       jTextField2: JAVASTUDY
       iTextField3: vas
       iTextField4: 8
       OR
       9
       JAVASTUDY
       vas
       8
       (1/2 mark for each line of output)
       Rewrite the following code using WHILE loop:
(e)
       int sum = 0;
       for(int i=9;i>=1;i--)
         if(i%3==0)
            sum = sum + i;
         else
            sum = sum - i;
Ans
       int sum = 0, i = 9;
       while (i>=1)
       {
          if(i%3==0)
              sum = sum + i;
          else
           sum = sum - i;
        i--;
       (1/2 mark for correct initialisation of i)
       (1/2 mark for correct condition)
       ( 1/2 mark for correct loop body)
       ( ½ mark for correct updation of i )
(f)
       The following code has error(s). Rewrite the correct code underlining
       all the corrections made:
       int x = 10;
       int y = 50;
```

```
do;
           {
              x+5 = x;
              y-5 = y;
             while ( x \le y );
Ans
       int x = 10;
       int y = 50;
             <u>do</u>
              {
                   x = x + 5;
                   y = y-5;
              }
             while (x \le y);
       (1/2 mark for correcting each error)
       OR
      (1 mark for only identifying any four errors)
       Vijay has developed a software for planning personal budget. A
(g)
       screenshot of the same is shown below:
                           PERSONAL BUDGET PLAN
                    Total Income
                               EXPENSES
            Bills(Water/Electricity)
            Groceries
                                                     Money to be sent to Hostel
            Entertainment
            Other Expenses
               CALCULATE
                                 CLEAR
                                                CLOSE
            SUM OF EXPENSES
            GRAND TOTAL OF EXPENSES
            SAVINGS
       Total Income, Expenses of Bills (Water/Electricity), Groceries,
       Entertainment, other expenses and whether money is to be sent to
       Hostel are entered by the user. Sum of Expenses, Grand Total of
       Expenses and Savings are calculated and displayed by the program.
       Write the code to do the following:
       i. When 'CALCULATE' button is clicked, Sum of Expenses, Total
                                                                               3
       Expenses and Savings should be calculated and displayed in
       appropriate text fields.

    Sum of Expenses is calculated by adding expenses on

             Bills(Water/Electricity), Groceries, Entertainment and other
             expenses.
```

```
Grand Total of
                             Expenses is calculated according to the
           following criteria:
           If 'Money to be sent to Hostel' checkbox is selected, 3000.00
           is to be added to the sum of expenses. If it is not selected,
           Grand Total of Expenses is the same as sum of expenses.

    Savings = Total Income - Grand Total of Expenses.

Ans
       //Calculation of Sum of Expenses
       jTextField6.setText("" +
       Integer.parseInt(jTextField2.getText()+
       Integer.parseInt(jTextField3.getText()+
       Integer.parseInt(jTextField4.getText()+
       Integer.parseInt(jTextField5.getText());
       //Calculation of Grand Total of Expenses
       if(jCheckBox1.isSelected())
         jTextField7.setText("" + 3000 +
         Integer.parseInt(jTextField6.getText()));
         jTextField7.setText("" +
         Integer.parseInt(jTextField6.getText()));
       // Calculation of Savings
       jTextField8.setText("" +
       Integer.parseInt(jTextField1.getText()) -
       Integer.parseInt(jTextField7.getText()));
       (1 mark for calculating and displaying 'Sum of Expenses')
       (1 mark for correct use of if ...else statement)
       ( ½ mark for calculating and displaying 'Grand Total of
       expenses')
       ( ½ mark for calculating and displaying 'Savings')
       When 'CLEAR' button is clicked, all text fields and checkbox should
(ii)
       be cleared.
       jTextField1.setText("");
       jTextField2.setText("");
       jTextField3.setText("");
       jTextField4.setText("");
       jTextField5.setText("");
       jTextField6.setText("");
       jTextField7.setText("");
       jTextField8.setText("");
       jCheckBox1.setSelected(false);
       ( ½ mark for clearing any text field)
       ( ½ mark for clearing check box)
       Note: NULL in place of "" to be accepted for clearing text field.
                                                                      1
       When 'CLOSE' button is clicked, the application should close.
(iii)
       System.exit(0);
```

CBSE AISSCE 2016 Marking Scheme for Informatics Practices (Sub Code: 065 Paper Code 90/1 Delhi)

		(1 mark for	correct answer)			
5	(a)	Anita has crea Table: Order	ated the following t	able with the name	e 'Order'.	2
			Column Name	Constra	aint	
			Orderld	Primary	Key	
			OrderDate	Not Null		
			OrderAmount			
			Storeld			
		One of the ro	ws inserted is as fo	llows:		
		OrderId	OrderDate	OrderAmount	Storeld	
		0101	2015-02-12	34000	S104	
	i.	What is the da	ta type of columns	Orderld and Order	Date in the	table
	Ans		Orderld: varchar OrderDate:date	/char		
		(½ mark eac	h for each correct	output)		
	ii.	Anita is now to	rying to insert the f	ollowing row:		
		Orderld	OrderDate	OrderAmount	StoreID	
		0102	NULL le to successfully ir	59000	S105	
	Ans	(ii) No	te to successfully if	isert it: Give reasor	1.	
	Alls	, ,	Null Constraint app	olied on attribute A	nimalNamo	
					ariiria(Nariic	
		`	mentioning "NO") mentioning correct			
	(b)	+ `	put of the following			2
	` ′			- ·		
	(i) Ans		('BoardExamina	11011 , 2, 4)		
	AIIS	oard	correct output)			
	(ii)		ND(67.246 , 2)			
	Ans	67 . 25	πυ(01.240, 2)			
	VIII		correct output)			
	(iii)	<u> </u>	TR('INFORMATIO	NEORM' 'FOR'		
	Ans	3	TR(INFORMATION	TORM , TOR)		
	AIIS	+	correct output)			
	(iv)	,	OFYEAR(*2015-0:	1_10')		
	Ans	10	OFTEAK(2013-0.	1-10 <i>)</i>		
	AIIS	+	correct output)			
	(c)	,	nds in SQL for (i) to	(iv) and output for	r (v) and (vi), 6
	(c)	Wille Collilla	1143 111 3QL 101 (1) LC	(1v) and output 10	i (v) aliu (vi	<i>j</i> .

	StoreId	Mame	Tocation	C: +	NoOfe	Date0====================================	Color3
	Storeid	Name	Location	City	oyees	DateOpened	unt
	s101	Planetfash ion	KarolBagh	Delhi	+	2015-10-16	300000
	s102		Nehru Nagar	Mumbai	11	2015-08-09	400000
	s103	Vogue	Vikas Vihar	Delhi	10	2015-06-27	200000
	S104	Superfashi on	Defence Colony	Delhi	8	2015-02-18	450000
	s105	Rage	Bandra	Mumbai	5	2015-09-22	600000
, ,		name, loca alesAmount		SalesAm	ount of s	tores in des	cending
Ans	FROM St	core	ation,Cit	_	LeAmount	=	
	•	k for SELEC	•				
` '			stores alor nywhere in	•		unt of those	e stores
Ans	FROM St		esAmount \%fashio	on%';			
	•	k for SELEC	•				
			mes, Locat 1 st March 20		Date Ope	ened of stor	res that
Ans	FROM St WHERE D OR SELECT FROM St	core DateOpene Name,Loc core	ation,Dated < '03/03 ation,Dated < 030120	1/2015' teOpene	· ;		
	•	for SELEC	•				
(iv) 7	Го display	total Sales	Amount of	each city	y along w	ith city name	e
Ans	FROM St		sAmount)	City			

	(v)	SELECT d	listinct cit	ty FROM store;			
	Ans	City Delhi Mumbai					
		(1 mark f	or correct out	put)			
	(vi)		Tame, length OfEmployees	n(name),left(na s<3;	me,3) F	ROM Store	
	Ans	Empty Set OR No Output		·			
		(1 mark)	for correct an	swer)			
6	(a)	structure	<u> </u>	ite a table 'Event' v	ı		2
		Fie		Type	Const		
			entId	Varchar(5)		RY KEY	
			entName cation	Varchar(30)	1 ТОИ	NULL	
			entID	Varchar(50) Integer			
		-	entDate	Date			
		(EventId	VARCHAR (5)	PRIMARY KEY,			
		EventNa Locatio ClientI	me VARCHAR (n VARCHAR (5 D INTEGER, te DATE	(30) NOT NULL,			
		EventNa Locatio ClientI EventDa); (½ Mark (½ Mark	n VARCHAR (5 D INTEGER, te DATE for CREATE I for Column No	ABLE) TABLE With Data Ty KEY Constraint)	pes)		
	(b)	EventNa Locatio ClientI EventDa); (½ Mark (½ Mark (½ Mark (½ Mark	n VARCHAR (5 D INTEGER, te DATE for CREATE T for Column No	ABLE) ames with Data Ty KEY Constraint) Constraint)	pes)		2
	(b)	EventNa Locatio ClientI EventDa); (½ Mark (½ Mark (½ Mark (½ Mark	n VARCHAR (5 D INTEGER, te DATE for CREATE I for Column No for PRIMARY for NOT NULL	PABLE) TABLE) TABLE () TABLE	pes) State	PhoneNumber	2
	(b)	EventNa Locatio ClientI EventDa); (½ Mark (½ Mark (½ Mark (½ Mark	on VARCHAR (5 D INTEGER, te DATE for CREATE If for Column No for PRIMARY for NOT NULL the tables give	PABLE) Tames with Data Ty KEY Constraint) Constraint) en below. Table:Faculty	·	PhoneNumber 991019564	2
	(b)	EventNa Locatio ClientI EventDa); (½ Mark (½ Mark (½ Mark (½ Mark Consider	n VARCHAR (5 D INTEGER, te DATE for CREATE If for Column Notice for PRIMARY for NOT NULL the tables give	PABLE) Tames with Data Ty KEY Constraint) Constraint) en below. Table:Faculty Address	State		2
	(b)	EventNa Locatio ClientI EventDa); (½ Mark (½ Mark (½ Mark (½ Mark Consider TeacherId	n VARCHAR (5 D INTEGER, te DATE for CREATE If for Column Notice for PRIMARY for NOT NULL the tables give Name Savita Sharma	PABLE) Tames with Data Ty KEY Constraint) Constraint) en below. Table:Faculty Address A-151, Adarsh Nagar	State Delhi	991019564	2

<u> </u>		Ţ	able:Cours	e	•		
	Courseld	Subject		Teach	erld Fee		
	C101	Introductory Mathe	ematics	T101	4500		
	C103	Physics		T101	5000		
	C104	Introductory Comp	uter Science	T102	4000		
	C105	Advance Computer	Science	T104	6500		
(i) V	Vhich colu	mn is used to rela	ite the two	tables?			
Ans	Teacherld	column is used to	connect th	e two tables.			
	(1 mark f	for correct colum	n name)				
, ,	Is it possible to have a primary key and a foreign key both in one table? Justify your answer with the help of table given above.						
A	Yes. As in the Table:Course, Courseld can be used as Primary key and Teacherld is the foreign key.						
	(½ Mark for correct answer) (½ Mark for correct justification)						
	With reference to the above given tables, write commands in SQL for (i) and (ii) and output for (iii):						
` '	To display Courseld, TeacherId, Name of Teacher, Phone Number of Teachers living in Delhi.						
1	SELECT CourseId, TeacherId, Name, PhoneNumber FROM Course, Faculty WHERE Course.TeacherId = Faculty.TeacherId AND city = 'Delhi';						
	(1 mark for correct use of SELECT and FROM) (½ mark for each condition using WHERE clause)						
` '	To display TeacherID, Names of Teachers, Subjects of all teachers with names of Teachers starting with 'S'.						
1	<pre>SELECT TeacherId,Name,Subject FROM Faculty, Course WHERE Faculty.TeacherId = Course. TeacherId AND Name like \S%;;</pre>						
	(1 mark for correct use of SELECT and FROM) (½ mark for each condition)						
	SELECT CourseId, Subject, TeacherId, Name, PhoneNumber FROM Faculty, Course WHERE Faculty.TeacherId = Course.TeacherId AND Fee >= 5000;						
Ans							
C	ourseId S		TeacherID	Name	PhoneNumb		
11	103 P	hysics	T101	Savita Sharma	1001010564		

CBSE AISSCE 2016 Marking Scheme for Informatics Practices (Sub Code: 065 Paper Code 90/1 Delhi)

		C105	Advance Computer Science	T104	Simi Arora	6587	777564		
		(1 mark for each line of correct output)							
7	(a)	"In e-Business, customers should shop only when they trust the e-store provider for payment methods"- Justify the statement						1	
	Ans	In e-business, security about the transaction being made by the customer is of utmost importance. A customer should ensure that information about his/her bank accounts, credit cards should not be available to unauthorized persons/e-stores as account may be hacked or money may get stolen/embezzled.							
		(1 mark for correct justification)							
	(b)	Which of the following statements is NOT true in e-Governance? Rewrite the statement after correcting it. (i) Online applications and tracking of status of applications should be provided. (ii) Citizens should not be required to submit documents in physical form. (iii) On line Forms should be made tricky so that only well educated users can enter data. (iv) Government should interact with citizens and enlighten them about different schemes through social media and web based platforms.							
	Ans	(iii) Online Forms should be made so simple that all users can enter data							
		(1 mark for identifying (iii) as answer) (1 mark for writing correct statement) OR (½ mark each for mentioning any one of (i), (ii) or (iv) as True)							
	(c)	Ms. Arora is creating a form for accepting Visa applications. Help her to choose most appropriate controls out of ListBox, ComboBox, TextField, TextArea, RadioButton, CheckBox, Label and Command Button for the following entries. S.No. Function 1 To enter EMAIL ID 2 To choose GENDER 3 To enter NATIONALITY from countries given as options. 4 To enter REMARKS in the form of a paragraph about the purpose of visit.							
	Ans								
		S.No.	Function		(Control			
		1	To enter EMAIL ID			ext field			
		2 To choose GENDER Radio Button							

	3	To enter NATIONALITY from countries given as options.	Combobox	
	4	To enter REMARKS in the form of a paragraph about the purpose of visit.	Text Area	
	(½ ma	rk for each answer)		