Scheme.

Marking Scheme helps the students and markers of answer <u>scripts</u> both. Marking Scheme along with the extensive supervisory checks and counter checks through which CBSE tries to ensure <u>objective</u> and fair marking.

CBSE Class XII Marking Scheme 2015 for Informatics Practices is given below as per CBSE guidelines.

Marking Scheme Class XII Informatics Practices (Code: 065) 2014-15

Ti	me: 3H	rs. MM:	70
1	(a)	Draw a network layout of bus topology to connect 5 client computers and 1 server computer.	(1)
	Ans:	Server WS WS Workstation Terminator WS WS Workstation Terminator WS WS Workstation Terminator	
	(b)	Computers) Mr. John wants to prevent unauthorized access to/from his company's local area network. Write the name of a system (software/ hardware), which he should install to do the same.	(1)
	Ans:	He should install Firewall. (1 mark for correct answer)	
	(c)	Which of the following are open source softwares: GNU, MS-Office, BOSS, Windows OS	(1)
	Ans:	GNU, BOSS (½ mark for each correct answer)	204
		(/2 mark for each correct answer)	

government organization that contributes to the growth of FOSS in India.

(1 mark for correct answer)

HOME	CBSE	ICSE / ISC	STATE BOARDS	NCERT	activity whether hing what he/she is	(2)
MOCK TE		TUDY MATERIAL			e data while on its	
TALENTS	ii. Eav	MS & OLYMPIAD resdropping resdropping. For each correc				
(d)	http:	://www.cbse-in	owing text in the add ternational.com/hel concept of URL and	p.htm	e with reference to the	(2)
Ans:	web, whe domain na For e is a URL. I	reas a domain ame is a compore example the we in this URL www.	name specifies the lent of the URL used be address http://www.cbse-international.c	ocation of do to access web w.cbse-intern com is the dor	ational.com/help.htm nain name. ne ½ mark for correctly	
(e)	holiday ho the softwa "नोबेल प्राइउ given in s	omework. He is are automatical व इस गवेन इन सर six categories".	using a software in ly converts the text इस कैटेगरीज" the softw	which he type into English. I vare converts entry is it -	ureates as a part of his es the text in Hindi and For example, if he types it into "Nobel Prize is phonetic text entry OR kind of text entry?	(2)
Ans:	It is diffe keyboard phonetic pronuncia (1 mark f	keys are map text entry text tion of the ente or specifying "	ped to specific cha translation is done	racters using by some softv	eymap based text entry a keymap whereas in ware based on probable	

2	(a)	In a java program Rajat wants to use a variable to store the quantity of an item which may be in whole numbers or decimals. Write a suitable java statement to declare the variable for the above mentioned purpose.	(1)
	Ans:	He can use float or double type of variable.	

	Or float num; (1 mark for each correct declaration)	
(b)	What will be the values of num and num1 after execution of the following code: int num,num1=0; for(num=100;num<=101;num++) { num1= num+2;num1; }	(1)
Ans:	The value of both num and num1 will be 102. (½ mark for each correct answer)	
(c)	Zia is working with list box. She has placed a list control on her form to display the list of all items available in her shop. She wants to allow the user to select multiple items from her list control. Which property of jList should she use to do the same?	(1)
Ans:	She should use the selectionMode property (1 mark for correct answer)	
(d)	Raman has typed the following code: int ch=Integer.parseInt(jTextField1.getText()); switch(ch) { case 1:jTextField2.setText("Service"); case 2: jTextField2.setText("Complaint"); case 3: jTextField2.setText("Operator"); break; default: jTextField2.setText("Not a valid entry"); } On entering the value 1, 2 or 3, he is getting the same output. Mention the possible reason for the same.	(1)
Ans:	Break statement is missing after every case. (1 mark for correct answer)	
(e)	Jennifer wants to write html code to create an ordered list starting with "c". Help her in writing the code.	(2)

Ans:	<pre><ol start="3" type="a"> (1 mark for OL) (½ mark for type) (½ mark for correct value of start)</pre>	
(f)	Write any two advantages of xml over html.	(2)
Ans:	 HTML is designed to display data and hence focused on the 'look' of the data, whereas XML is designed to describe and carry data and hence focuses on 'what data is'. In HTML tags are predefined, while in XML, tags can be created as per needs. (1 mark each for any two correct advantages) 	
(g)	Write java code that take any three digit number from the user in jTextField1, calculate the sum of the digits and display it in separate textfield named jTextField2.	(2)

```
For example If the number entered is 432, it should answers as 9 (i.e. 4+3+2).
  Ans:
          int n=Integer.parseInt(jTextField1.getText());
          int result=0;
           while(n>0)
            {
                 result = result+n%10;
                 n=n/10;
          jTextField2.setText(""+result);
          (1 mark for correct while loop)
          (1/2 mark for correct logic used inside while loop)
          (½ mark for displaying correct value)
3
          Saumya had previously created a table named 'Product' in a database using MySQL.
   (a)
          Later on she forgot the table structure. Suggest to her the suitable MySQL
          command through which she can check the structure of the already created table.
  Ans:
          Desc Product;
          OR
          Describe Product;
          (1 mark for correct answer)
   (b)
          Roli wants to list the names of all the tables in her database named 'Gadgets'.
                                                                                              (1)
          Which command (s) she should use to get the desired result.
          Show tables:
  Ans:
          (1 mark for correct answer)
```

(c)	Kuhu has already create	d a table 'Hospita	as shown below:			(1)	
	Patient_No	Patient_Name	Disease	Age	Charges		
	P001	Alya	Viral Fever	14	500		
	P002	Kavita	Lung Infection	16	1500		
	P003	Manya	Cough and Cold	20	500		
	P004	Amar	Bone Fracture	22	2500		
	P005	Deep	Viral Fever	15	500		
Ans:	Alter table Hospital add	-725 50.00	W. Se sa says says		17.00		
	Now she wants to add a her suitable MySQL comm	mand for the same		given t	able. Suggest to		
(d)	Amit works as a databas					(1	
	the changes made in the command for the same.	he current transa	ction. Suggest to	him a	suitable MySQL		
Ans:	Rollback						
(e)	What will be the output of the following queries on the basis of Employee table:						
		+	++				
	Empld EName Salary						
		+	[COT 하는 10 FM 프랑스 (10 FM)				
		A001 Bob	20 10				
		A002 Joh A003 Ton					

```
(i)Select avg(Salary) from Employee;
       (ii) Select Salary+100 from Employee where Empld='A002';
Ans:
       (i)
       mysql> Select avg(Salary) from Employee;
       | avg(Salary) |
       +----+
       5300.0000 |
       +----+
       (ii)
       mysql> Select Salary+100 from Employee where EmpId='A002';
       | Salary+100 |
       +----+
          NULL |
       +-----+
       (1 mark for each correct output)
```

	A table	named '		(3				
	1	GCode	GameName	Number_of_Players	PrizeMoney			
	3	101	Carom Board	2	5000			
		102	Badminton	2	12000			
		103	Table Tennis	4	8000			
	SELECT * FROM GAMES; SET AUTOCOMMIT = 0; INSERT INTO GAMES VALUES(105, 'CHESS', 2, 9000); ROLLBACK; SAVEPOINT S1; SELECT * FROM GAMES;							
Ans:		CK TO S * FROM I	TEM;	(ii)				
53.5	359	GCode	GameName	Number_of_Players	PrizeMoney			
		101	Carom Board	2	5000			
		102	Badminton	2	12000			
	1	103	Table Tennis	4	8000			
	(ii)							
	(ii)	GCode	GameName	Number_of_Players	PrizeMoney			
	(ii)	GCode 101	GameName Carom Board	Number_of_Players	PrizeMoney 5000			
	(ii)	A CONTRACTOR OF THE PARTY.			THE CHARLEST WATER TO SELECT THE CONTROL OF THE CON			
	(ii)	101	Carom Board	2	5000			
	(ii)	101 102	Carom Board Badminton	2 2	5000 12000			
		101 102 103 108	Carom Board Badminton Table Tennis	2 2 4 4	5000 12000 8000			

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(5)	observe the Siren statements carerany.	(-/
	 (i) SELECT * FROM club WHERE salary between 20000 and 30000; (ii) SELECT * FROM club WHERE salary IN (20000, 30000); (iii) SELECT * FROM club WHERE salary >= 20000 and salary <= 30000; (iv) SELECT * FROM club WHERE salary = 20000 OR salary = 30000; 	
4.9	Make pairs of the equivalent SQL statements given above (which give the same output) and place each pair in a group.	
Ans:	Group A (i)	

		(iii) Group B (ii) (iv) (1/2 Mark for each correct answer)	
4	(a)	Define inheritance with reference to object oriented programming.	(1)
	Ans:	Inheritance is a process of creating a new class (derived class or sub class) from existing class. The derived class not only inherits capabilities of the base class but also can add new features of their own. (1 mark for correct definition)	
	(b)	Given a String object named 'code' having value as "908" stored in it. What will be result of the following? JOptionPane.showMessageDialog(null, " " +(code.length()+ Integer.parseInt(code)));	(1)
	Ans:	911 (1 mark for correct answer)	
	(c)	What will be displayed in jTextField1 and jTextField2 after the following code is executed: int num = 35 , num1 = 46 ; jTextField1.setText(num + num1 + " ") ; jTextField1.setText(" " + num + num1) ;	(1)
	Ans:	jTextField1 81 will be displayed jTextField2 3546 will be displayed. (1 mark for each correct answer)	
	(d)	<pre>Find output of the following java code snippet: String word="Highrise"; String wordlc = word.toLowerCase(); for (int i = 0; i < wordlc.length(); i+=4) { String extstr = wordlc.substring(i,i+2); jTextArea1.append(extstr+"\n"); }</pre>	(2)
	Ans:	hi ri (½ mark for each character of output)	
	(e)	Rewrite the following code using while loop: int a,b; for(a=10,b=4;a<=16;a++,b+=2){	(2)

jTextArea1.append(""+a++);} JOptionPane.showMessageDialog(null, "Finished!!!"); Ans: int a=10,b=4; while (a <= 16)jTextArea1.append(""+a++); a++; b+=2:} JOptionPane.showMessageDialog(null, "Finished!!!"); (1/2 mark for correct while statement, 1/2 mark for correct increment statement and 1 mark for correct use of variables) (f) The following code has error(s). Rewrite the correct code underlining all the (2) corrections made: String str1 = SeemaSurakshabal; int b; for(int b = 0; b < 3, b++) { jTextArea1.showText(str1+"\n"); str1 = str1 + b; } String str1 = "SeemaSurakshabal"; Ans: int b; for(int b = 0; b < 3; b++)jTextArea1.append(str1+"\n"); str1 = str1 + b; } (1/2 mark for each correct error) Ms. Rakhi works in an International Bank as an IT Head. She designed a simple (6) (g) interest calculator program as shown below: O B X 4 International Bank CUSTOMER NAME Ms. Jenifer 10000 DEPOSIT AMOUNT ACCOUNT TYPE SAVING ○ RECURRING DEPOSIT ○ FIXED DEPOSIT INTEREST RATE INTEREST RATE DEPOSIT DURATION (IN YEARS) 800.0 SIMPLE INTEREST AMOUNT SI CLEAR ALL

	ACCOUNT TYPE	INTEREST RATE %
	SAVING	4 %
	RECURRING DEPOSIT	6 %
	FIXED DEPOSIT	8 %

The interest water is given beand on the account time as above below

Write the code required for 'INTEREST RATE' button to display interest rate

```
as per the above given criteria.
          ii. Write the code required for 'SI' button to calculate and display 'Simple
          Interest' based on the given formulae:
                    SI=(amount*interest_rate*duration)/100;
         iii. Write the code required for 'CLEAR ALL' to clear all the textfields.
       i. Correct code required for 'INTEREST RATE' button to display interest rate as per
Ans:
       the above given criteria:
       if(R1.isSelected()==true)
          T3.setText("4");
       else if(R2.isSelected()==true)
          T3.setText("6");
       if(R3.isSelected()==true)
          T3.setText("8");
       (1 mark for using correct if statement
       1 mark for displaying interest rate value in the suitable text field)
       ii. Correct code required for 'SI' button
       double amt=Double.parseDouble(T2.getText());
       double int_rate=Double.parseDouble(T3.getText());
       int year=Integer.parseInt(T4.getText());
       double si=(amt*int_rate*year)/100;
       T5.setText(""+si);
       (1 mark for fetching values in suitable variables
        1 mark for calculating and displaying SI)
       iii
            t1.setText("");
            t2.setText("");
            t3.setText("");
            t4.setText("");
            t5.setText("");
        (1 mark for correct code)
```

5	(a)	Observe	e the table 'Club' given below: Club					
			Member_id	Member_nam	Address	Age	Fees	
			M001	Sumit	New Delhi	20	1000	1
			M002	Nisha	Gurgaon	19	1500	
			M003	Niharika	New Delhi	21	2100	
			M004	Sachin	Faridabad	18	1500	
		i. ii.	If a new column	linality and degre contact_no has b then how thes	een added a	nd two	more meml	100000000000000000000000000000000000000
				e above given tab	ole.			5.00
	Ans:	j.	cardinality of th Cardinality:4 Degree: 5	e above given tab				5.00

,				Class All Ivial King Sch	51116 20 13 101 111101	mailes Fractices	
	3.0	Degree: 6	. 0				
		THE RESERVE OF THE PARTY OF THE	r each co	orrect answer)			
5	1 2 2 2 2 2						1000
(b)	Write	the output of	the follo	owing SQL querie	es:		2
		CEL ECT INCE	D//WITED		• •		
				NATIONAL', 'NA			
	17033			NCAT('NETWORK	, ING));		
		SELECT ROU		345,-2); ('2014-01-30');			
	11	Charleston Manager Results	TOFTEAK	(2014-01-30);			+
Ans:	i.	6					
	ii.	10					
	iii.	600					
	iv.	30					
	102121110	cialis referencembers		en eller type type en en en			
	(½ m	ark for each	correct a	answer)			
(c)	Pranay,	who is an In-	dian, cre	eated a table n	amed "Frie	nds" to store his friend's	6
	detail.		a coperation of works can				S. Asserta
	Table "F	riends" is sho	own belo	w. Write comm	ands in SQL	for (i) to (iv) and output	8
	for (v) to	(vii).					
	30.00	DEL III					
	S_No	Name	Age	City	Country	Email_id	
	1	Alice	14	Washington	USA	alice@gmail.com	
	2	Charles	12	Copenhagen	Denmark	harles@yahoo.com	
	3	Angel	16	Chicago	USA	angel@gmail.com	
		The transfer of the territor	4.5	C		A second of the	
	5	Jasmine	15	Sydney	Australia	jasmine@yahoo.com	

	6	Jette	13	Nykobing	Denmark	jette@gmail.com
	7	Alexender	15	Melbourne	Australia	NULL
	8	Shashank	16	Banglore	India	NULL
Ans:	ii. iv. v. S vi. S 'Der vii. S i. Select ii. Select iii. Select iv. Select	To list name, To count how To list name a Select name, Select ucase nmark'; Select mid(na t name from fr t name,city,co ct count(*) from	many f many f and city country (concat me,1,4 dends wh untry fr n friend om frier	(name, "*", city)) as "UID" from formere country not lifted order by the system of th	ending order of lid on gmail. who don't have age>12 and from frien riends where the "India"; y age desc; ike "%gmail%;	990: 00
	OUTPUT v.	·	1.	1.		
	-	Name	Age	Country		
	-	Name Alice	14	USA		
	-	Name Alice Angel	14 16	USA USA		
	-	Name Alice	14	USA		

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/2013	CBSE Class All Marking Scheme 2015 for informatics Practices	
I I	Chartes Copenhagen	
	Jette*Nykobing	
	vii.	
	UID	
	Alic	
	Ange	
	(½ mark for each correct output)	

6	(a)	Write SQL	. query t	o create	a table 'Ban	ik_Customer	' with the	following structure:	(2)
				Fie	eld	15	ype	Constraint	
				193000	c_No		nteger	Primary Key	
				Charles and	ist_Name		archar(20		
					ist_Add		archar(20	A CONTRACTOR OF THE PROPERTY O	
					st_City	Contract to the second	/archar(20	A. Carlotte and Ca	
	Ans:	Create ta	hle Bank	Custome	er e				
		(Acc_No ir Cust_Nam Cust_Add Cust_City);	e varchar varchar varchar	ar(20) not (20), (20)		omer)			
		(½ Mark f (½ Mark f	or appro or corre	ct data ty	outting const (pes) of the query	traints)			
	(b)	(½ Mark f (½ Mark f (½ Mark f In a Bank	or appro or corre or corre	ct data ty ct syntax ase, there	rpes) of the query e are two tal own below:	traints) y) bles 'Custon	ner_info' a	and	(2)
	(b)	(½ Mark f (½ Mark f (½ Mark f In a Bank 'Transact	or appro or corre or corre s databa ionDe	ct data ty ct syntax ase, there tail' as sh	of the query are two tal own below:	traints) y) bles 'Custon			(2)
	(b)	(½ Mark f (½ Mark f (½ Mark f In a Bank 'Transact	or appro or corre or corre s databa ionDe	ct data ty ct syntax ase, there tail' as sh	of the query of the query are two tal own below: Custo	traints) y) bles 'Custon omer_info	Cust_Cit	ty Cust_Phone	(2)
	(b)	(½ Mark f (½ Mark f (½ Mark f In a Bank 'Transact	or approor corre or corre s databa ionDe	ct data ty ct syntax ase, there tail' as sh t_Name	rpes) of the query e are two tal own below: Custo Cust_Add Vasundhar	traints) y) bles 'Custon omer_info ra Enclave	Cust_Cit	cy Cust_Phone hi 8710557614	(2)
	(b)	(½ Mark f (½ Mark f (½ Mark f In a Bank 'Transact Acc_N 10010	or approor correct or	ct data ty ct syntax ase, there tail' as sh t_Name n	rpes) of the query e are two tal own below: Custo Cust_Add Vasundhar Punjabi Ba	traints) y) bles 'Custon omer_info ra Enclave agh	Cust_Cit New Del New Del	cy Cust_Phone hi 8710557614 hi 7123545233	(2)
	(b)	(½ Mark f (½ Mark f (½ Mark f In a Bank 'Transact	or approor correct or	ct data ty ct syntax ase, there tail' as sh it_Name n	rpes) of the query are two tal own below: Custo Cust_Add Vasundhar Punjabi Ba Civil Lines	traints) y) bles 'Custon omer_info ra Enclave agh	Cust_Cit New Del New Del Allahaba	cy Cust_Phone hi 8710557614 hi 7123545233	(2)
	(b)	(½ Mark f (½ Mark f (½ Mark f In a Bank 'Transact Acc_N 10010 10010	or approor correct or	ct data ty ct syntax ase, there tail' as sh it_Name n	rpes) of the query e are two tal own below: Custo Cust_Add Vasundhar Punjabi Ba Civil Lines Krishnana	traints) y) bles 'Custon omer_info ra Enclave agh	Cust_Cit New Del New Del	cy Cust_Phone hi 8710557614 hi 7123545233 ad 9872136576	(2)
	(b)	(½ Mark f (½ Mark f (½ Mark f (½ Mark f In a Bank 'Transact Acc_N 10010 10010	or approor correct or	ct data ty ct syntax ase, there tail' as sh it_Name n	rpes) of the query e are two tak own below: Custo Cust_Add Vasundhar Punjabi Ba Civil Lines Krishnana	traints) y) bles 'Custon omer_info ra Enclave agh s	Cust_Cit New Del New Del Allahaba Kanpur	cy Cust_Phone hi 8710557614 hi 7123545233 ad 9872136576	(2)
	(b)	(½ Mark f (½ Mark f (½ Mark f (½ Mark f In a Bank 'Transact 10010 10010	or approor correct or	ct data ty ct syntax ase, there tail' as sh t_Name n rita	rpes) of the query e are two tak own below: Custo Cust_Add Vasundhar Punjabi Ba Civil Lines Krishnanas	traints) y) bles 'Custon omer_info ra Enclave agh s gar ction_Detail	Cust_Cit New Del New Del Allahaba Kanpur	cy Cust_Phone hi 8710557614 hi 7123545233 ad 9872136576 9921305453	(2)

1003	1001001	Debit	2000	
T004	1001004	Credit	6000	
T005	1001001	Credit	4000	

- i. Is it possible to have primary key and foreign key in one table? Justify your answer.
- ii. A table can have maximum how many primary keys and foreign keys?

Ans:	 i. Yes, it is possible to have primary key and foreign key column in one table. Primary key column is used to uniquely identify each record of the table while foreign key column is used to maintain referential integrity. As in the above given table 'Transaction_Detail', Trans_Id column is a primary key column while Acc_No column may act as a foreign key column. 	
	(½ Mark for correct answer) (½ Mark for correct justification)	
	ii. A table can have maximum one Primary Key A table can have any number of foreign Keys	
15	(1/2 Mark for each correct answer)	
(c)	Consider the tables 'Flights' & 'Fares' given below:	(6)

Flights

FNO	SOURCE	DEST	NO_OF_FL	NO_OF_STOP
IC301	MUMBAI	BANGALORE	3	2
IC799	BANGALORE	KOLKATA	8	3
MC101	DELHI	VARANASI	6	0
IC302	MUMBAI	KOCHI	1	4
AM812	LUCKNOW	DELHI	4	0
MU499	DELHI	CHENNAI	3	3

Fares

FNO	AIRLINES	FARE	TAX
IC301	Indian Airlines	9425	5
IC799	Spice Jet	8846	10
MC101	Deccan Airlines	4210	7
IC302	Jet Airways	13894	5
AM812	Indian Airlines	4500	6
MU499	Sahara	12000	4

With reference to these tables, write commands in SQL for (i) and (ii) and output for (iii) below:

- i. To display flight number, source, airlines of those flights where fare is less than Rs. 10000.
- ii. To count total no of Indian Airlines flights starting from various cities.
- iii. SELECT FLIGHTS.FNO, NO_OF_FL, AIRLINES FROM FLIGHTS, FARES WHERE FLIGHTS.FNO = FARES.FNO AND SOURCE='DELHI';

Ans: i. select flights.fno,source,airlines from flights,fares where flight.fno=fares.fno

and fare<10000:

	(1 mark fo	or corr	ect use of select and from)		
	10 March 1981				
	source ha	ving A	irlines='Indian Airlines'; ect use of select and from)		
	MU499	3	Deccan Airlines Sahara		
b.	(1 mark fo	or each	correct line of output)		
(a)	What is th	e role	of a good back-end in an IT applicatio	n?	(1)
Ans:	applicatio	n.		nd easy modification of the	
(b)	Identify e i) ii) iii) iv)	On-lin On-lin On-lin	e experiments in a virtual laboratory of e application submission for change of e bill payment of Water Charges to Jal	of a college. address in the passport.	(2)
Ans:	i) ii) e-Learnin iii) iv)	On On g: On	 -line application submission for change -line experiments in a virtual laborato -line tutorials for physics 	e of address in the passport	
(c)	a form wi	th follo	owing functions. Choose appropriate control, Check box, List, Combo box and	ontrols from Text Field, write in the third column:	(2)
				Control	
		2.	Select the department from the available list Choose type of employee (Permanent / Regular)		
	Ans:	(1 mark for ii. select source has (1 mark for (1 mark	ii. select sum(not source having Air (1 mark for correct (2 mark for each (3)) Ans: A good back-ent application. (1 mark for correct (3)) (b) Identify e-Govern (4) ii) On-line (5) iii) On-line (7) iii) On-line (7) iii) On-line (7) iii) On (7) (c) Raghuram is word a form with follow Label, Radio but 1	source having Airlines='Indian Airlines'; (1 mark for correct use of select and from) (1 mark for correct use of where and group by clause) iii. MC101 6 Deccan Airlines MU499 3 Sahara (1 mark for each correct line of output) (a) What is the role of a good back-end in an IT application Ans: A good back-end ensures sustainability, efficiency a application. (1 mark for correct answer) (b) Identify e-Governance and e-Learning applications from i) On-line experiments in a virtual laboratory of ii) On-line application submission for change of iii) On-line bill payment of Water Charges to Jaliv) On-line tutorials for physics. Ans: E_Governance: i) On-line bill payment of Water Charges to Jaliv) On-line application submission for change e-Learning: iii) On-line experiments in a virtual laborator iv) On-line tutorials for physics (½ mark for correctly identifying each application) (c) Raghuram is working as a Manager in the Santushti Ent a form with following functions. Choose appropriate collabel, Radio button, Check box, List, Combo box and in Enter the name 2. Select the department from the available list	(1 mark for correct use of where clause) ii. select sum(no_of_fl) from flights, fares where flights.fno=fares.fno group by source having Airlines='Indian Airlines'; (1 mark for correct use of select and from) (1 mark for correct use of where and group by clause) iii. MC101 6 Deccan Airlines MU499 3 Sahara (1 mark for each correct line of output) (a) What is the role of a good back-end in an IT application? Ans: A good back-end ensures sustainability, efficiency and easy modification of the application. (1 mark for correct answer) (b) Identify e-Governance and e-Learning applications from the following:

	4.	Display the picture of the employe	e
Ans:	Sno	Control used to :	Control
	1.	Enter the name	Text Field
	2.	Select the department from the available list	Combo Box
	3.	Choose type of employee (Permanent / Regular)	Radio Button