

## Informatics Practices (065) Sample Question Paper –3

## Note

- 1. This question paper is divided into three sections.
- 2. All questions are compulsory.
- 3. Section A consists of 30 marks.
- 4. Section B and Section C are of 20 marks each
- 5. Answer the questions after carefully reading the text.

Section – A

Sectio	n – A						
Q 1.	Answer the following questions:						
	(a)	Give one major difference between Front End technology and Back End Technology in terms of Software Projects. Give one example of each.	2				
	(b)	Differentiate ER Modeling and Object Modeling Techniques.	2				
	(C)						
	( )	(i) Relation					
		(ií) Tuple					
	(d)	Name two areas in industries where business computing can be applied. Describe application of	4				
		business computing in those industries.					
Q2	Answer the following questions:						
	(a)	How do we specify comments in visual basic? How do we break a long line of code to a new line?	2				
	(b)	Write the steps in Program Solving Methodology. Give a suitable example showing use of Problem 4					
		Solving Methodology.					
	(c)	Explain the following Terms	4				
		(i) Modular Programming					
		(ii) Object Oriented Programming					
		(iii) Event Driven Programming					
		(iv) RAD					
Q3		Answer the following questions:					
	(a)	State the differences between SQL and PL/SQL.	2				
	(b)	Differentiate between Cursors and Triggers.	2				
	(C)	"NULL is not Equal to a NUL" do you agree with the statement. State reason.	2				
	(d)	What are PL/SQL blocks? How many types of PL/SQL block definition exist? Explain with suitable examples.	4				



Sectio	n – B						
Q4		d the following case study and answer the questions that follows:					
		Rahul Gautam, a class VII student just got introduced to Visual Basic and made a Pager Simulating Application in it. The following picture is showing the execution state of the application. Look at the picture and help in getting rid of some problems he is getting at the time of execution.   Pager Instrument picture and help in getting rid of some problems he is getting at the time of execution.   Problem 1: The user normally uses mouse to operate the pager application but sometimes if a non-numeric character is pressed on keyboard, the application does not stop it and allows that also.   Problem 2: The text box txtPage is showing numeric digits Left aligned as shown in picture but they are required to be right aligned.   Problem 3: Following is the code showing function of cmdClear command button( Clear Button Clear in the picture)   Private Sub cmdClear_Click ()   txtPage.Text=Mid (txtPage.Text, 1, Len(txtPage.Text)-1)   End Sub   The problem arises in case the user clicks on the clear button and there is nothing written in the text box txtPage.					
	(a)	Write the code statement required to be given in the Click Event of command button Switch Off to 1 close the application. The name of this object is cmdSwitchOff. 1   Write the code statement to clear the text box txtPage to blank text box on clicking cmdCancel 1 command button (Cancel button in the picture) 1   Write the code statement for cmdPageNow command button (Page Now button in the above Picture) 2 to show a Message Box displaying "Message Sent" and call the cancel button after this operation. 2					
	(b)						
	(C)						
	(d)	Write the code statement to solve Rahul's problem 1 by disabling keyboard entry at execution time. 2 Also suggest that where to place this code so that it gets executed before the main form is shown.					
	(e)	) Write the code statement to solve Rahul's problem 2 and place the code in form load event of frmPager.					
	(f)						
Q5							



Mr. C D Sharma learnt elementary visual basic programming and started making an application for his 7-year-old kid. He made an application for viewing different type of shapes. Initially he designed the basic application as shown below. Play with Shapes Control Panel Play with the Shape **Draw Shape** Rectangle Square Oval Circle **Rounded Rectangle Rounded Square Clear Shape Object Type Object Name** Description Form frmPlayForm The Main Form Object Command Button cmdDrawShape cmdRectangle cmdSquare cmdOval Command buttons to draw the respective cmdCircle shapes and clear the form. cmdRoundedRectangle cmdRoundedSquare cmdClearShape Label **IbIPlayWithShape** Shape shpPlay The Shape object. Now he wants to exercise some control over the command buttons displayed in the form. His requirements are listed as below Requirement 1: Enable Draw Shape command button and disable all other Command Button Controls in the beginning. Also the form should not have any shape displayed. Requirement 2: On Clicking Draw Shape command button, all the command buttons except Draw Shape command button should be enabled. Requirement 3: On clicking command buttons Rectangle, Square, Oval, Circle, Rounded Rectangle, Rounded Square the respective shape should be displayed. Requirement 4: On Clicking Clear Shape command button the status of requirement 1 should be resumed.

Visit www.ncerthelp.com for Ncert Solutions in Text and Video , CBSE Sample papers, Exam tips, NCERT BOOKS, Motivational Videos, Notes for All Classes and Many More...



	(a) Write a procedure DrawShape to set the properties of shape object shpPlay as height = 2000, widt 3000, top = 1500 and left = 4000. The shape should be displayed after setting these parameters.							
	(b)	Write a procedure DisableControl to disable the controls as per requirements in 1 and 3.						
	(C)	Write a procedure EnableControl to enable the controls as per requirement in 2.						
	(d)	Write code for requirement number 3	2					
	(e)	Write the code statement required for requirement number 4	2					
Secti	on C							
6	Ans	Answer the following questions						
	(a)	DEPTNO DNAME LOC	2					
		10 ACCOUNTING NEW YORK 20 RESEARCH DALLAS 30 SALES CHICAGO 40 OPERATIONS BOSTON						
		Look at the above Dept table and give the output produced by the following PL/SQL code on execution:						
		DECLARE v_DeptID Dept.DeptNo%TYPE := 10; v_Department Dept.DName%Type; v_Counter NUMBER (2) := 1; BEGIN LOOP						
		SELECT DName INTO v_Department FROM Dept WHERE DeptNo = v_DeptID ; DBMS_OUTPUT.PUT_LINE (v_Department); v_DeptID = v_DeptID + 10 v_Counter = v_Counter + 1 EXIT WHEN v_Counter >3; END LOOP; END;						
	(b)	Write the output of the following PL/SQL code segment DECLARE x CHAR(3) := 'ABC'; i NUMBER; BEGIN FOR i IN 13 LOOP DBMS_OUTPUT.PUT_LINE (SUBSTR (x, -3, i)); END LOOP ;	2					
	(c)	END; Write the output of the following PL/SQL code segment	2					
		BEGIN FOR i IN REVERSE 110 LOOP IF MOD (i, 2)=0 THEN DBMS_OUTPUT.PUT_LINE (TO_CHAR (i*10)); END IF; END LOOP; END;						
	(d)	Write a SQL function MyAddition which will accept two arguments of number type and returns the sum of both values.	4					

Visit www.ncerthelp.com for Ncert Solutions in Text and Video , CBSE Sample papers, Exam tips, NCERT BOOKS, Motivational Videos, Notes for All Classes and Many More...



7	Use the following structure of Customer table to answer the following questions									
	Col	umn Name	Cust_ID (Primary Key)	Cust_Name	Cust_Add1	Cust_Add2	Pin_Code	Cust_Phone		
	Data type		NUMBER	VARCHAR2	VARCHAR2	VARCHAR2	NUMBER	VARCHAR2		
	Ler	ngth	7	30	20	30	6	10		
	(a) Write the SQL Command to create the above table including its Constraints								2	
	(b)	Write a PL/SQL code to modify all the CUST_PHONE numbers by joining '2' before each phone 2 number if it contains 7 characters.							2	
	(C)	Write a PL/SQL code to modify all the CUST_PHONE numbers by removing '2' if it starts with '2'.							2	
	(c) Write PL/SQL code to create two Statement level triggers TrigBeforeUpdateCustomer and TrigAfterUpdateCustomer before and after UPDATE statement respectively on the table Customer which signals 'Starting Update' to signify that modification of records has started and 'End of Update' message to signify that modification is over.								4	