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Chapter 2: Program and Graphical User Interface Design

MULTIPLE RESPONSE

Modified Multiple Choice

1.		n the screen. size position
	ANS: A, B, C, D PTS: 1 REF:	41
2.	*	special characters letters 42
3.	to change its a. vertical border resolution c.	object, dragging its corner sizing handle allows you width center point 45
4.	 To place a .NET component from the Toolbox in a. right-click the component in the Toolbox b. double-tap or double-click the component in t c. drag it from the Toolbox d. tap or click the component in the Toolbox and at the desired location 	he Toolbox
	ANS: B, C, D PTS: 1 REF:	48
5.		coding the program documenting the system

MODIFIED TRUE/FALSE

1. When you enter a value in the Text property for a Label object, the value will be displayed in the <u>Text</u> object.

ANS: F, Label

PTS: 1 REF: 50

2. When a Label object on a Windows Form object is selected, it has a red border.

ANS: F, dotted

	PTS:	1	REF:	52				
3.	A GU	I object must b	e <u>select</u>	ed in order to c	lelete it.	·		
	ANS:	Т			PTS:	1	REF:	56
4.		ting the <u>Resize</u> tract to accomr						ect will automatically expand ty.
	ANS:	F, AutoSize						
	PTS:	1	REF:	70				
5.	A <u>red</u>	snap line indica	ates that	t the sides of o	bjects a	re aligned verti	ically	
	ANS:	F, blue						
	PTS:	1	REF:	72				
MUL	TIPLE	CHOICE						
1.	Visual a. RA b. EF		s t	ools that are us	c.	e design proce HTTP EFT	ess.	
	ANS:	А	PTS:	1	REF:	34		
2.	The a. lib b. set	•	ow that	appears on ev	с.	en when the pr project user interface	-	s running.
	ANS:	D	PTS:	1	REF:	34		
3.	a. W	ows Store apps indows 7 indows 8	can onl	y be written ar	nd execu c. d.	ited using Visual Studic Visual Basic		
	ANS:	В	PTS:	1	REF:	34		

4. A(n) _____ is equivalent to a single program created using Visual Studio.
a. application c. command
b. project d. matrix

ANS: B PTS: 1 REF: 36

5. A program whose interface will be a window created using the Windows operating system, and which will allow the user to interact with the program by using this window, is created by selecting a _____ project in Visual Studio.

a.	Web Application		с.	Windows Application		
b.	Console Applicat	ion	d. Custom Control			
AN	S: C	PTS: 1	REF:	36		

6.	To create a new pro			o, you n	nust specify both the type of application you will
	a. color scheme	•		с.	font size
	b. programming la	anguage			window size
	ANS: B	PTS:	1	REF:	36
7.	The project name w a. status bar b. title bar	vill be disj	played on the _	c.	the Visual Studio window. toolbar Toolbox
	ANS: B	PTS:	1	REF:	38
8.	the of the Vis				ndows Form object you are designing will appear in
	a. task area				form area
	b. design area			d.	work area
	ANS: D	PTS:	1	REF:	38
9.	When creating a pr and which will disp a. Windows Form b. Windows Scree	olay on yo 1 object		n the pro	is the window that you use to build the program ogram is executed. Windows Program object Windows Application object
	ANS: A	PTS:	1	REF:	39
10.	The is the fun tools.	damental	object in the g	raphica	l user interface you will create using Visual Studio
	a. Windows Form	object		с.	work area
	b. user space	U		d.	user window
	ANS: A	PTS:	1	REF:	39
11.	a. toolbar	mary tool	you use to place	c.	cts such as buttons on the Windows Form object. Toolbox
	b. task bar			d.	Properties window
	ANS: C	PTS:	1	REF:	39

	Pizza Selection - Micr FILE EDIT VIEW PROJEC	T BUILD DEBUG	TEAM SQL TOOLS		ELP
	Image: Search Toolbox	• •	· - ▶ Start + Ⅱ ≡ ⊊. × ρ -	💪 🗇 Debug 🔹 🏓 🊎	- Solut
	 ▶ All Windows Forms Common Controls Pointer Button CheckBox CheckBox CheckBox CheckBox ComboBox DateTimePicker Label LinkLabel ListView MonthCalendar Nothfcon NumericUpDown PictureBox ProgressBar RadioButton RichTextBox RichTextBox 				Sear F E S T T T T T T T T T T T T T
2.	TextBox, Label, and aNET b. display	PictureBox	in the accompany c. d.	ing figure are con command category	nponents.
	ANS: A	PTS: 1	REF:	39	
3.	Graphical elements of accompanying figure a. linked items b. common keys			user interface.	using the elements in the
	ANS: D	PTS: 1	REF:	40	
4.	The Auto Hide butto Toolbox. a. Lock b. Checkmark	on on the Too	olbox title bar con c. d.	tains a icon which Minimize Pushpin	n indicates the status of the
	ANS: D	PTS : 1	REF:	40	
5.	are used to con a. Attributes b. Properties	trol the colo	с.	position on the screen Symbols Indices	of an object.
	ANS: B	PTS: 1	REF:	41	
6.	By default, the Prope a. upper-right b. upper-left	erties windo	с.	he section of the ` lower-left lower-right	Visual Studio window.

ANS: D PTS: 1 REF: 41

17.	You are designing a Which of the follow a. MilesForm b. Form1			this fo	frmSalesRep
	ANS: D	PTS:	1	REF:	42
18.	Which prefix should a. form b. frm	l be used	to name a Wir	с.	Form object? wfm win
	ANS: B	PTS:	1	REF:	42
19.	The property of a. Title b. Text	of a Form	n object can be	с.	set the value that will appear on the form's title bar. Caption Label
	ANS: B	PTS:	1	REF:	42
20.	The default text val a. 1Form b. Form	ue for the	e first Windows		object created in a project is Form1 ThisForm
	ANS: C	PTS:	1	REF:	44
21.	You can drag a vert a. dimension b. leader line	ical	to change the	c.	of a window. resolution border
	ANS: D	PTS:	1	REF:	45
22.	a. WindowStateb. TabStop			с. d.	be used to change the width of the form. Size BorderStyle
	ANS: C	PTS:	1	REF:	45
23.	The object is a a. Label b. TextBox ANS: A	ised to di PTS:		c.	t a name on an item in a window. PictureBox Button 47
24.	The Label object ap a. Common Contr b. Text		the catego	c.	ne Toolbox. Commands Options
	ANS: A	PTS:	1	REF:	47
25.	A prefix of sh a. lab b. lbe	ould be u	sed when nam	с.	el objects. lbl lal
	ANS: C	PTS:	1	REF:	48
26.	The property of	of a Labe	l object can be	used to	change the contents of the Label object.

^{26.} The _____ property of a Label object can be used to change the contents of the Label object. a. Caption c. Text

	b. Label		d.	Title
	ANS: C	PTS: 1	REF:	50
27.	You can use the a. Text b. Font	property to char	с.	or size of the text in a Label object. Style Format
	ANS: B	PTS: 1	REF:	52
28.			available whe	window, a(n) button indicates multiple en you tap or click the button. comma percent sign
	ANS: A	PTS: 1	REF:	52
29.	A Label object can a. FILE b. EDIT	be centered on the	с.	orm object by using choices on the menu. FORMAT TOOLS
	ANS: C	PTS: 1	REF:	54
30.	a. DELETE b. F3	-	c. d.	ed by selecting it and pressing the key. BACKSPACE F5
	ANS: A	PTS: 1	REF:	56
31.	A(n) object is a. Frame b. Image	used to hold an im	с.	ndows Form object. PictureBox GraphicObject
	ANS: C	PTS: 1	REF:	57
32.	A prefix of sh a. img b. pbx		c. d.	pcb pic
	ANS: D	PTS: 1	REF:	
33.	To select multiple of clicking the objects a. ALT b. CTRL	-	ws Form obj c. d.	ect, you must hold down the key while DELETE SHIFT
	ANS: B	PTS: 1	REF:	62
34.			ragged is ho	you are dragging a GUI object on a Windows Form rizontally aligned with the object connected by the hot snap
	ANS: D	PTS: 1	u. REF:	-

35. You should _____ as the first phase of the program development life cycle.

	a. design the user inb. gather and analyc. code the programd. document the program	ze the p 1		ements	
	ANS: B	PTS:	1	REF:	75
36.	requirements have be	een gath	ered and analy	zed.	am development life cycle, after the program design the user interface
	b. code the program		essing objects		document the program
	ANS: C	PTS:	1	REF:	75
37.	is the last phase a. Documenting the b. Testing the progr	e progra	.m/system	с.	life cycle. Discarding the program/system Maintaining the program/system
	ANS: D	PTS:	1	REF:	76
38.	way in which the pro- management might r	gram p		cs, and o	ed manner the instructions for using the program, the other items that users, other developers, and
	a. Documentingb. Labeling				Indexing Texting
	ANS: A	PTS:	1	REF:	76
39.	procedures to be foll	owed w	hen using the p	program	gram being developed, the application title, the a, any equations and calculations required, any and any notes and restrictions that must be followed
	a. notes				restrictions
	b. requirements			d.	matrix
	ANS: B	PTS:	1	REF:	77
40.	is another name a. PictureBox b. Windows Form	e for the	user interface		Presentation layer Application matter
	ANS: C	PTS:	1	REF:	79
TRUI	E/FALSE				
1.	Visual Studio 2012 i	s an inte	egrated develop	oment e	nvironment.
	ANS: T	PTS:	1	REF:	32
2.					leveloper should know how to use certain Visual tools are used in the design process.

ANS: T PTS: 1 REF: 34

3. A project created in Visual Studio is equivalent to a single screen at runtime.

ANS: F PTS: 1 REF: 36

4. When creating a new project using Visual Studio, you first must select the programming language to be used.

ANS: T PTS: 1 REF: 36

5. A Windows Application project will create a program that is designed to run using an Internet browser.

ANS: F PTS: 1 REF: 36

6. The Windows Form object is the fundamental object in the graphical user interface you will create using Visual Studio tools.

ANS: T PTS: 1 REF: 39

7. The Toolbar contains the GUI components that you can use when designing the form.

ANS: F PTS: 1 REF: 40

8. The Auto Display button controls whether or not the Toolbox is permanently open.

ANS: F PTS: 1 REF: 40

9. When the Toolbox is in Dockable mode, it cannot be moved.

ANS: F PTS: 1 REF: 40

10. By default, the Properties window is shown in the upper-right section of the Visual Studio window.

ANS: F PTS: 1 REF: 41

11. If the Solution Explorer window is not displayed on your screen, you can display the window by tapping or clicking VIEW on the menu bar and then tapping or clicking Solution Explorer on the VIEW menu.

ANS: T PTS: 1 REF: 41

12. It can become confusing if you do not have unique identifying names for each Form object you have within a project.

ANS: T PTS: 1 REF: 44

13. The Caption property is used to set the contents of the title bar of a Windows Form object.

ANS: F PTS: 1 REF: 44

14. You do not have to select a property in order to change it.

ANS: F PTS: 1 REF: 44

15. The size of a GUI object can only be changed by using the Size property.

	ANS: F	PTS:	1	REF:	45
16.	You can add a .NET .NET component in t	-		ows For	m object by double-tapping or double-clicking the
	ANS: T	PTS:	1	REF:	48
17.	A Label object can o	nly cont	tain one line of	text.	
	ANS: F	PTS:	1	REF:	51
18.	You can use the Text	t proper	ty of a Label ol	oject to	change the size and appearance of the text.
	ANS: F	PTS:	1	REF:	52
19.	When you change the expand to accommod			in a Lat	bel object, the Label object will automatically
	ANS: T	PTS:	1	REF:	54
20.	An object must be dr	agged in	nto position wh	ien you	want to center it on a Windows Form object.
	ANS: F	PTS:	1	REF:	54
21.	The Undo button can	inot be i	used to restore	an obje	ct that has been deleted.
	ANS: F	PTS:	1	REF:	57
22.	When aligning sever objects will be aligne		0	t object	t selected is the controlling object, and the other
	ANS: T	PTS:	1	REF:	63
23.	To change the conter Caption property.	nts of th	e text that appe	ars on t	the face of a Button object, you must use the
	ANS: F	PTS:	1	REF:	68
24.	The mouse pointer cl of a button object, fo	•		ded arr	ow to indicate that you can drag to change the size
	ANS: T	PTS:	1	REF:	69
25.	When you save a Vis to be saved.	sual Bas	ic project the f	irst time	e, you must select the location where the project is
	ANS: T	PTS:	1	REF:	74
СОМ	PLETION				

1. Visual Studio 2012 is the ______ that is used when writing Visual Basic programs.

ANS: integrated development environment

PTS: 1 REF: 32

2. A(n) ______ is a program that will include a user interface whose windows are created using the Windows operating system.

ANS: Windows Application project

PTS: 1 REF: 36

3. The Toolbox is the primary tool you use to place _______ such as buttons on the Windows Form object.

ANS: .NET components

PTS: 1 REF: 39

4. When the Pushpin icon on the Auto Hide button is vertical, the Toolbox is said to be in _____ mode.

ANS: dockable Dockable PTS: 1 REF: 40

5. If the properties in the Properties window do not appear in alphabetical order, tap or click the ______ button to place them in alphabetical order.

ANS: Alphabetical

PTS: 1 REF: 41

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orm1.vb (Design) • ×	- • 💌		Solution Explorer Solution Explorer Solution Explore Search Solution Explore	다 다 (Cri+)	د ب - م
			Pizza Selection		
			 My Project Q App.config ▶ I Form1.vb 		
	Þ		Solution Explorer Tean	n Explorer	
			Properties		- 0)
Section Contraction			Form1 System.Window		
			2 9. 0 5 8	199220000000000	
			C Size	300.300	
			SizeGripStyle	Auto	
			StartPosition	WindowsDefaultLoc	ation
			Tag		
			Text	Form1	
			TooMost Text	False	

6. When an object is selected in Visual Studio, as shown in the accompanying figure, _______ and a heavier border appear on the outer edges of the object.

ANS: sizing handles

PTS: 1 REF: 42

7. When a Windows Form object has been resized, the exact size in numbers of horizontal and vertical pixels is shown on the ______ bar.

ANS: status

PTS: 1 REF: 46

8. A(n) ______ object is used in a graphical user interface to provide information about items on the window.

ANS: Label

PTS: 1 REF: 47

9. The default contents of a Label object can be changed by using the _____ property.

ANS: Text

PTS: 1 REF: 50

10. An object on a Windows Form object can be deleted by selecting it and pressing the ______ key on the keyboard.

ANS: DELETE

PTS: 1 REF: 56 11. You can resize a GUI object to be the same size as another GUI object by using the Make Same Size command on the _____ menu. ANS: FORMAT PTS: 1 REF: 62 _____ means that one element in the GUI is lined up horizontally and/or vertically 12. with another element in the window. ANS: Alignment PTS: 1 REF: 63 13. A(n) ______ object is generally used on a form to cause an event to occur when the program is executing. ANS: Button PTS: 1 REF: 66 14. A prefix of _______ should be used when naming a Button object. ANS: btn REF: 68 PTS: 1 15. A snap line that is colored ______ indicates that the text within an object is aligned with the text in another object. ANS: red PTS: 1 REF: 70 16. Program ______ consists of the instructions written using a programming language that ultimately can be executed by a computer. ANS: code PTS: 1 REF: 75 17. Program and system ______ is the process of changing and updating programs. ANS: maintenance PTS: 1 REF: 76 18. A(n) ______ is a sequence of actions a user will perform when using the program. ANS: use case PTS: 1 REF: 78

19. A(n) ______ specifies each of the use case sequences of actions by describing what the user will do and how the program will respond.

ANS: Use Case Definition

PTS: 1 REF: 78

20. User interface designs with no functionality, called ______, are created for approval of the design only.

ANS: mock-ups

PTS: 1 REF: 79

MATCHING

Identify the letter of the choice that best matches the phrase or definition.

a.	presentation layer	f.	use case
b.	Dockable	g.	PictureBox
c.	blue	h.	1b1
d.	sizing handles	i.	red
e.	title bar	j.	btn

- 1. Another name for the user interface
- 2. After a project has been created in Visual Studio, the project name will be displayed on this part of the Visual Studio window
- 3. The sequence of actions a user will perform when using the program
- 4. The Pushpin icon on the Auto Hide button of the Toolbox will appear in a vertical position when the Toolbox is in this mode
- 5. When an object is selected on a Windows Form object, these will appear on the object
- 6. When the mouse pointer is inside this kind of object, it changes to a crosshair with four arrowheads
- 7. A Button object's name should have this prefix
- 8. Kind of snap line that indicates that the edges of two objects are vertically aligned
- 9. Kind of snap line that indicates text within an object is aligned with the text in another object
- 10. A Label object's name should have this prefix

1.	ANS:	А	PTS:	1	REF:	79
2.	ANS:	E	PTS:	1	REF:	38
3.	ANS:	F	PTS:	1	REF:	78
4.	ANS:	В	PTS:	1	REF:	40
5.	ANS:	D	PTS:	1	REF:	42
6.	ANS:	G	PTS:	1	REF:	58
7.	ANS:	J	PTS:	1	REF:	68
8.	ANS:	С	PTS:	1	REF:	72
9.	ANS:	Ι	PTS:	1	REF:	70
10.	ANS:	Н	PTS:	1	REF:	48

ESSAY

1. What are the methods for placing a .NET component from the Toolbox on the Windows Form object?

ANS:

In addition to dragging a .NET component from the Toolbox to the Windows Form object, you can place an object on the Windows Form object by double-tapping or double-clicking the .NET component in the Toolbox. You can move and resize the object after it has been placed on the Windows Form object. You also can tap or click the .NET component in the Toolbox and then click the Windows Form object at the desired location for the object. The object will be placed where you tapped or clicked.

PTS: 1 REF: 48 TOP: Critical Thinking

2. Define alignment and explain its significance with regard to PictureBox objects, for example.

ANS:

When designing a graphical user interface, you should consider aligning the elements to create a clean, uncluttered look for the user. Alignment means one element in the GUI is lined up horizontally (left and right) or vertically (up or down) with another element in the window. When you want to align objects already on the Windows Form object, select the objects to align, and then specify the alignment you want. The first object selected is the controlling object; when aligning, this means the other objects that are selected will be aligned on the first object selected.

PTS: 1 REF: 63 TOP: Critical Thinking

3. Discuss three methods for opening a saved project.

ANS:

Method 1: Double-tap or double-click the solution file in the folder in which it is stored. This method will open the solution and allow you to continue your work.

Method 2: With Visual Studio open, click the Open File button on the Standard toolbar, locate the solution file, and open it in the same manner you use for most Windows programs.

Method 3: With Visual Studio open, click FILE on the menu bar and then point to Recent Projects and Solutions on the FILE menu. A list of the projects most recently worked on is displayed. Tap or click the name of the project you want to open. This method might not work well if you are using a computer that is not your own because other projects might be listed.

PTS: 1 REF: 75 TOP: Critical Thinking

CASE

Critical Thinking Questions Case 2-1

Professor Mackenzie is answering questions from students in her class as she explains the program development life cycle in her introductory Visual Basic course.

1. Some of her students have been confusing the order of the various steps and phases and she wants to correct any misunderstandings about it. Which of the following can the professor give as the correct order for the steps in the program development life cycle?

a. Gather and analyze the program requirements, design the program processing objects, design the user interface, code the program, document the program/system, test the program, and maintain the program/system

b. Design the user interface, design the program processing objects, gather and analyze the

program requirements, code the program, test the program, document the program/system, and maintain the program/system

c. Gather and analyze the program requirements, design the user interface, design the program processing objects, code the program, test the program, document the program/system, and maintain the program/system

d. Gather and analyze the program requirements, code the program, design the user interface, design the program processing objects, test the program, document the program/system, and maintain the program/system

ANS: C

PTS: 1 REF: 75-76 TOP: Critical Thinking

2. When does Professor Mackenzie tell her students that program documentation should occur?

a. As the program requirements are being gathered and analyzed.	c. As the program is being designed and coded, and after that process is completed.
	d. After the program has been successfully
processing objects are designed	tested.

ANS: C

PTS: 1 REF: 76

TOP: Critical Thinking

Critical Thinking Questions Case 2-2

You and Ellen are cramming for your exam about the second phase of the program development life cycle, the design of the user interface.

3. As you recount the design principles to Ellen during your study session, which of the following is NOT one that you share with her?

a. If the user interface is too simple to use, the user will not trust that it is sufficiently robust.b. Use of the interface should feel natural and normal.

c. A good user interface provides the most appropriate object for each requirement.d. The objects in the interface must be arranged in the sequence in which they are used so the user can move from item to item on the screen in a logical, straightforward manner.

ANS:

A

PTS: 1 REF: 79|80 TOP

TOP: Critical Thinking

4. Ellen tells you the percentage of program design time that developers spend on the user interface. You think that she is exaggerating but then you double-check and see that she is right. What range does she give you?

a. 25% to 40%	c. 35% to 60%
b. 30% to 50%	d. 40% to 70%

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ANS: A

PTS: 1 REF: 79

TOP: Critical Thinking