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Universiti Tun Hussein Onn Malaysia

**UNIVERSITI TUN HUSSEIN ONN MALAYSIA
ANSWER SCHEME
TEST
SEMESTER II
SESSION 2021/2022**

COURSE NAME	:	VISUAL PROGRAMMING
COURSE CODE	:	DAT 21103
PROGRAMME CODE	:	DAT
EXAMINATION DATE	:	JULY 2022
DURATION	:	1 HOUR
INSTRUCTION	:	<p>1. ANSWERS ALL QUESTIONS.</p> <p>2. THIS TEST IS CONDUCTED VIA CLOSE BOOK.</p> <p>3. STUDENTS ARE PROHIBITED TO CONSULT THEIR OWN MATERIAL OR ANY EXTERNAL RESOURCES DURING THE EXAMINATION CONDUCTED VIA CLOSED BOOK</p>

THIS QUESTION PAPER CONSISTS OF ELEVEN (11) PAGES

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SECTION A (30 MARKS)

- Q1** Visual Basic responds to events using which of the following?
- A A code procedure
 - B An event procedure**
 - C A form procedure
 - D A property
- Q2** What property of controls tells the order they receive the focus when the tab key is pressed during run time?
- A Focus order
 - B Focus number
 - C Tab index**
 - D Control order
- Q3** The Properties window plays an important role in the development of Visual Basic applications. It is mainly used
- A to change how objects look and feel.**
 - B when opening programs stored on a hard drive.
 - C to allow the developer to graphically design program components.
 - D to set program related options like Program Name, Program Location, etc.
- Q4** An algorithm is defined as
- A a mathematical formula that solves a problem.
 - B a tempo for classical music played in a coda.
 - C a logical sequence of steps that solve a problem.**
 - D a tool that designs computer programs and draws the user interface.
- Q5** Determine the compound condition that evaluates True if one or both conditions are True .
- A txtMark.Text > 0 Or txtMark.Text < 100**
 - B txtMark.Text > 0 And txtMark.Text < 100
 - C Not txtMark.Text = 100
 - D txtMark.Text > 0
- Q6** Which of the following arithmetic operations has the highest level of precedence?
- A + -
 - B * /
 - C ^ exponentiation**
 - D ()
- Q7** Identify the proper syntax when using a message dialog box.
- A MessageBox.Show("Hi there", "Hi")**
 - B MessageBox.Show("Hi there",, "Hi")
 - C MessageBox.Show('Hi there, Hi')
 - D MessageBox.Show('Hi there', 'Hi')
- Q8** Identify the output of the following statement.

```
txtBox.Text = FormatCurrency(1234.567)
```

- A \$1234.567
- B 1,234.57
- C \$1234.57
- D **\$1,234.57**

Q9 The output for coding syntax of Asc ("A") is 65. Identify the output for syntax Asc ("C").

- A 66
- B 67**
- C 68
- D C

Q10 The output for coding syntax of Asc ("A") is 65. Identify the output that will be displayed by syntax txtBox.Text = Chr(65) & "BC"

- A ABC**
- B A BC
- C 656667
- D Not enough information in available

Q11 The three main logical operators are _____, _____, and _____.

- A And, Or, Not**
- B And, Not, If
- C Or, Not, If
- D False, And, True

Q12 Identify value for x would make the statement Not (x >= 5) condition is **TRUE**.

- A x is equal to 7
- B x is equal to 4**
- C x is equal to 5.001
- D x is equal to 5.000

Q13 What happens to a variable declared locally inside a Sub procedure after the procedure terminates?

- A It maintains its value even after the End Sub statement executes.
- B It no longer existed after the End Sub statement executes.**
- C It loses its value temporarily after the End Sub statement executes, but regains that value upon re-entry to the Sub procedure.
- D It is reset to its default value.

Q14 If you keep a variable undeclared, it is automatically taken as to which of the following data type in Visual Basic?

- A Char
- B Integer
- C Object**
- D String

Q15 What will be the output of the following Visual Basic code, If the intnumber variable is 110?

```
If intnumber<=100 Then  
    Intnumber=intnumber*2;  
Else  
    Intnumber=intnumber*3;  
EndIf
```

- A 180
- B 330**
- C 156
- D 270

Q16 Identify the value of StudScore(2) in the following program segment.

```
Dim StudScore(4) As Integer  
StudScore = {98, 97, 96, 95, 94}
```

- A 98
- B 97
- C 96**
- D 95

Q17 What will be the output of the following Visual Basic code?

```
Dim intScores As Integer = {78, 83, 75, 90}  
Array.Sort(intScores)
```

- A 90,83,78,75
- B 78,75,83,90
- C 78, 83, 75,90
- D 75,78, 83,90**

Q18 Who developed Visual Basic?

- A Symantec
- B Oracle
- C Microsoft**
- D Bill Gates

Q19 _____ is the process of finding and removing errors.

- A Checking
- B Compiling
- C Debugging**
- D Quick Watch

Q20 Identify visual basic control that is used to display text but user cannot change it directly.

- A Textbox
- B Label**
- C Button
- D Listbox

Q21 The _____ allows direct exit from a For loop, Do loop, sub procedure, or function procedure.

- A Break
- B Exit Do
- C Exit For
- D **Exit**

Q22 Identify the property that is used to change name of the command button.

- A **Text**
- B Caption
- C Name
- D Anchor

Q23 Identify visual basic control that allows multiple answers to be selected?

- A RadioButton
- B ComboBox
- C **CheckBox**
- D GroupBox

Q24 To attach a scroll bar to the textbox , the property of textbox should be set to_____.

- A **Multiline = True**
- B Scrollbar = True
- C SingleLine = False
- D Visible = True

Q25 The event that occurs when certain key of keyboard is pressed is called _____ .

- A KeyType
- B **KeyPress**
- C KeyEnter
- D MouseOver

Q26 The text property of a text box behaves like a _____ data type.

- A **String**
- B Integer
- C Double
- D Text

Q27 Which statement is **TRUE** if strName is declared in two different Sub procedures.?

- A The program will malfunction when it is executed.
- B When the value of strName is changed in one Sub procedure, it will also be changed in the other Sub procedure.
- C Visual Studio's smart editor will alert you that this is an error before the program is executed.
- D **The two variables will be local to their respective Sub procedures.**

Q28 The Properties window plays an important role in the development of Visual Basic applications. It is mainly used _____ .

- A **to change how objects look and feel**
- B when opening programs stored on a hard drive
- C to allow the developer to graphically design program components
- D to set program related options like Program Name, Program Location, etc.

Q29 An algorithm is defined as _____ .

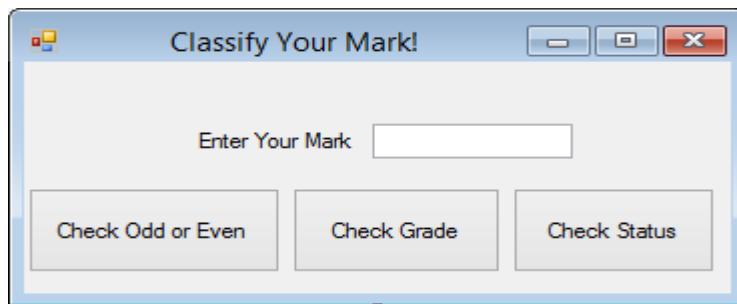
- A a mathematical formula that solves a problem
- B a tempo for classical music played in a code
- C a logical sequence of steps that solve a problem
- D a tool that designs computer programs and draws the user interface

Q30 Identify the value that will be assigned to the numeric variable `x` when the following statement `x = 2 + 3 * 4` is executed.

- A 20
- B 14
- C 92
- D 234

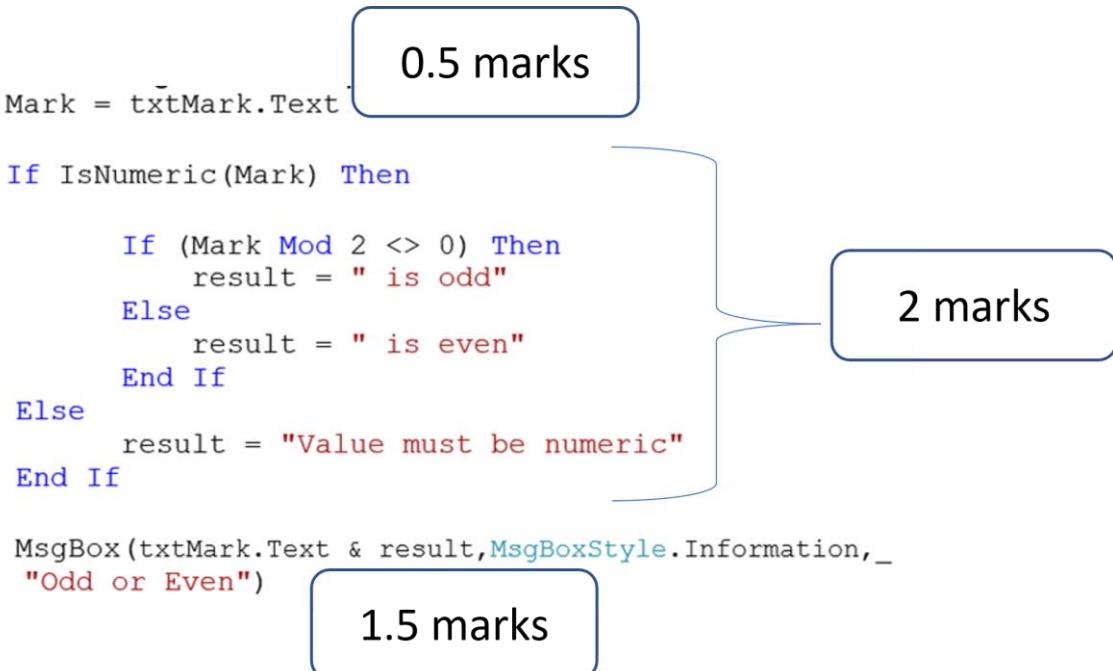
SECTION B (20 MARKS)

Q31 Write a program that will display a decision in a message box for the mark entered by the user at a Text Box called `txtMark` as per form and condition given below .



(a) Write the code for the first button `btnOddEven`, using If-ElseIf statements that will classify whether the mark is an odd or even number.

(4 marks)



- (b) Write the code for the second button btnGrade, using If-ElseIf statements that will display the grade received, whether it is "A", "B", "C" or "D" based on table below.

Marks	Grade
80 to 100	A
60 to 79	B
40 to 59	C
Less than 40	D

(8 marks)

```

Mark = txtMark.Text 0.5 mark
If Mark >= 80 And Mark <= 100 Then } 1 mark
    Grade = "A"
ElseIf Mark >= 60 And Mark < 80 Then } 1 mark
    Grade = "B"
ElseIf Mark >= 40 And Mark < 60 Then } 1 mark
    Grade = "C"
ElseIf Mark >= 0 And Mark < 40 Then } 1 mark
    Grade = "D"
Else
    Grade = "Out of Range" } 1 mark
End If

```

```
MsgBox("Your Grade is" & Grade, MsgBoxStyle.Information, "Grade") 2.5 mark
```

- (c) Write the code for the third button btnStatus, using Select Case statement that will display a message based on table below.

Marks	Status
0 to 49	Need to work harder
50 to 59	Average
60 to 69	Above Average
70 to 84	Good
85 to 100	Excellence

(8 marks)

```

Mark = txtMark.Text 0.5 mark
Select Case Mark
    Case 0 To 49
        Status = "Need to work harder" } 1 mark
    Case 50 To 59
        Status = "Average" } 1 mark
    Case 60 To 69
        Status = "Above Average" } 1 mark
    Case 70 To 84
        Status = "Good" } 1 mark
    Case 85 To 100
        Status = "Excellence" } 1 mark
    Case Else
        Status = "Wrong entry, please reenter the mark" } 1 mark
End Select

```

```
MsgBox(Status, MsgBoxStyle.Information, "Status") 1.5 mark
```

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-END OF QUESTIONS -