



## **CHANS**

**COURSE TITLE: CIS202– Introduction to Programming**

**2nd SEMESTER: FINAL EXAMINATION 2019**

**LECTURER: MR J. CHINZVENDE**

**TIME: 3 HOURS**

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### ***INSTRUCTIONS***

Marks are given at the end of each question [Marks]

Start **each** question on a new page.

The marks allocated to **each** question are shown at the end of the section.

**Answer all questions in Section A and Chose Three in section B**

Credit will be awarded for logical, systematic and neat presentations.

## **Section A**

1. Define the following terms as they are used in Programming

- |                  |                |
|------------------|----------------|
| a. Debugging     | f. Inheritance |
| b. Algorithm     | g. Namespace   |
| c. Operator      | h. Variable    |
| d. BASIC         | i. Pseudo code |
| e. Encapsulation | j. Flow chart  |

[10]

2. What is the difference between the following?

FUNCTION	DESCRIPTION
e.g. Asc	Returns the character code on the first letter in a string.
LCase	
Left	
	Gives the length of a string.
	Removes spaces from the beginning of a string.
RTrim	

[10]

3. What is the function of the following in visual basic programming?

- a. Forms
- b. Controls
- c. Methods
- d. Properties
- e. Module

[10]

4. Grace wants to design a Visual Basic Program that accepts two numbers, compares them and then outputs the larger number.

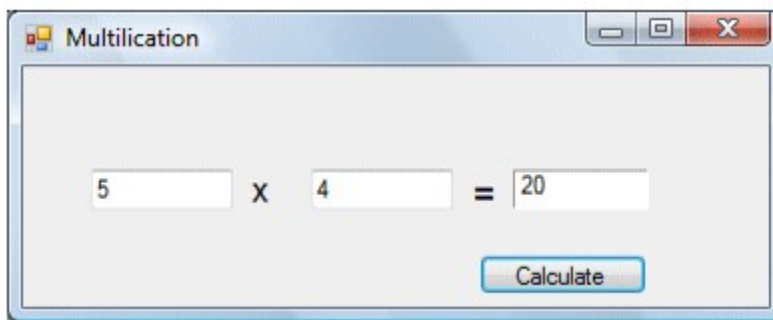
- a. Draw a Flow Chart
- b. Design an algorithm to solve this problem
- c. Design the user interface with three text boxes, labels and a command button
- d. Write the code to perform the process on the button.

[10]

## SECTION B (Answer any three questions)

### Question One

- Describe the three steps in designing a visual basic program
- Name the three modes in which Visual Basic operates in
- Write code on for program below



[20]

### Question two

- Match the following terms and their definitions:

1. Developer	A collection of data organized in a manner that allows access, retrieval, and use of that data
2. <b>Dim</b> statement	Someone skilled in designing computer programs
3. <b>Visual C#</b>	A window with a variety of objects that can be displayed
4. Graphical user interface	Used for Declaring a variable
5. Database	Programming language

- A loop inside another loop is called a \_\_\_\_\_.
- Explain object oriented programming concepts with advantages.

### Question Three

- i. What do the following operators mean in VB programming?

Operator	Meaning
+	Addition
-	
*	
/	
^	
Mod	

- ii. Private Sub btnDisplay\_Click(...) Handels btnDisplay.Click

```
Dim word1, word2, newWord As String
word1 = "memory"      word2 = "feather"
newWord = word1 + & word2
If newWord.Length > 3 Then
    txtBox.Text = newWord
Else
    txtBox.Text = "Sorry, not found."
End If
```

End Sub

- a. What is the output of the code above  
b. What error handling statement can on the sub routine above?

[20]

### Question four

- i. Write a Dim statement for each of the following variables using the variable type and variable name that would be best for each value.

- The population of the state of Alaska
- Your weekly pay
- The smallest data type you can use for your age
- A constant for the first initial of your first name
- The minimum wage
- The name of the city in which you live
- The answer to a true/false question

- ii. What are the principals of user interface design

[20]

### Question Five

- j.    a. \_intRadian  
      b. PercentOfSales#  
      c. first\_Input\_Value  
      d. R743-L56  
      e. 3CPO

Discuss the stages of Programme development life cycle.

[20]