

**KABARAK UNIVERSITY**

**UNIVERSITY EXAMINATIONS**

**MAIN/TOWN**

**FIRST SEMESTER, 2020/2021**

**EXAMINATION FOR THE BACHELOR OF SCIENCE IN COMPUTER SCIENCE**

**COMP 329 – VISUAL BASIC**

**STREAM: Y3S2 TIME: 2:00-4:00pm**

**EXAMINATION SESSION: SEP-DEC DATE: 04/02/2021**

**INSTRUCTIONS TO CANDIDATES**

1. **Answer Question 1 and any other two questions in the answer booklet provided.**
2. **Do not write on your question papers. All rough work should be done in your answer booklet.**
3. **Clearly indicate which question you are answering.**
4. **Write neatly and legibly.**
5. **Follow all the instructions in the answer booklet.**

**SECTION A: (COMPULSORY) TOTAL MARKS FOR THIS SECTION IS 30.**

1. Write a VB code that changes the background color of a form and displays text on a message Box. [5 Marks]
2. Explain how is an event related to an object in Visual Basic? [5 Marks]
3. Literals are values that you assign to a data. Why is it important to add a suffix behind a literal in VB? [2 Marks]
4. Write a code that demonstrates the use of the FOUR basic arithmetic operators. [6 Marks]
5. Write a VB code that demonstrates how an exception is handled using Try….Catch. [6 Marks]
6. Write a VB program of your choice to demonstrate the use of timer control. [6 Marks]

**SECTION B. TOTAL MARKS FOR THIS SECTION IS 40.**

1. With the help of an example, write a note on variable declaration in VB. [6 Marks]
2. Explain how a value is assigned to variables. [4 Marks]
3. Define the term constant, then explain how constants are declared in VB. [4 Marks]
4. Study the output below and write a code for it. [6 Marks]
5. Using VB, write a program that will calculate BMI. [6 Marks]
6. List down FOUR types of logical operators and how they work. [4 Marks]
7. With the help of a syntax and example, explain the If…Then else If control structure as used in VB. [6 marks]
8. Study the following code and draw an output window for it. [4 Marks]

Private Sub Button1\_Click (ByVal sender As System. Object, ByVal e As System.EventArgs) Handles Button1.Click  
Dim my Number As Integer  
my Number = TextBox1.Text  
If my Number > 100 Then  
Label2.Text = ” You win a lucky prize”  
End If  
End Sub

1. Using an example, differentiate between an entry controlled and exit controlled loop. [6 Marks]
2. Write a VB program that will increment the value of a counter by two while counter is less than 20. Use a while loop. [6 Marks]
3. List down at least FOUR user defined format functions for date and time. [4 Marks]
4. Write a VB program that finds the volume of a cylinder that has the pre-date component in it. [4 Marks]
5. Develop a shopping Cart using VB. [6 Marks]
6. Write a VB code that deals with the error of entering non-numeric data into text boxes that are supposed to hold numeric data. [6 Marks]
7. Write the syntax for establishing a connection to a data source using SQL Connection String property. [4 marks]
8. Write VB code that demonstrates move to the record in the database. [4 Marks]