



(Knowledge for development)

KIBABII UNIVERSITY

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UNIVERSITY EXAMINATIONS 2020/2021 ACADEMIC YEAR SPECIAL/SUPPLEMENTARY EXAMINATIONS YEAR ONE SEMESTER ONE EXAMINATIONS

FOR THE DIPLOMA IN (INFORMATION TECHNOLOGY)

COURSE CODE:

DIT052

COURSE TITLE:

RAPID APPLICATION

DEVELOPMENT

DATE: 27/09/2021

TIME: 8.00 A.M. -10.00 A.M.

INSTRUCTIONS TO CANDIDATE

ANSWER QUESTION ONE AND ANY OTHER TWO

QUESTION ONE [COMPULSARY] (24 MARKS)

a)	What is Visual Basic (VB)?		[2 Marks]
b)	Compare visual basic program with other popular programming languages [6 Ma		[6 Marks]
c)	You can use the + or the & operator to join two or more texts (string) together. W		
	code to	output the following. "Madam Emily likes to teach" using either + or	& operator.
			[5 Marks]
d)	Define	the following terms as used in VB.Net	[6 Marks]
	i.	Object	
	ii.	Class	
	iii.	Methods	
	iv.	Instance variables	
e)	List an	d explain the main components of a .NET framework architecture?	[5 Marks]
QUESTION TWO (18 MARKS)			
a)	Why is	Why is visual Basic VB known as an object oriented programming language? [2 Marks	
b)	Outline	Outline six features of Visual Basic (VB) [6 Marks	
c)	Study the vb program below and give the output as they are arranged. [4 Mar		
	Drivata Sub Form Activata ()		
	Private Sub Form_Activate ()		
	Print 20 + 10		
	Print 20 - 10		
	Print 20 * 10		
	Print 2	0 / 10	
	End Su	ıb	
d)	Using	examples, differentiate global and local variables	[6 Marks]
		QUESTION THREE (18 MARKS)	
a)	Define	a data type.	[2 Marks]

[5 Marks]

b) List and explain five types of loops available in VB.NET:

c) + or the & operator is used to Concat two or more string in Visual basic. Below is the code to Concat two string in visual basic. Which contains 3 strings str1, str2,str3. What is the meaning of concatenation? Give the output of the code below. [5 Marks] Module Module1 Sub Main() Dim str1, str2, str3 As String str1 = "Visual" str2 = "Basic" str3 = "Program" Console.WriteLine(str1 + " " + str2 + " " + str3) Console.ReadLine() End Sub End Module d) List and explain different types of operators in visual basic [6 Marks] **QUESTION FOUR (18 MARKS)** [4 Marks] a) Explain in brief i) data adapter and ii) dataset b) Differentiate btw ADO. AND ADO.NET on basis of objects, client application and [6 Marks] transactions. [4 Marks] c) Outline two types of arrays d) In VB.Net, Every Control has its own properties which describe the control. Properties [4 Marks] are divided into two types. Name and explain the properties. **QUESTION FIVE (18 MARKS)** a) [2 Marks] What is .NET Framework? i. Suppose a variable is passed by value to a parameter of a Sub procedure, and the 11. parameter has its value changed inside the Sub procedure. What will the value of the [2 Marks] variable be after the Sub procedure has executed? What does the divide-and-conquer-method of problem solving do? [2 Marks] 111. What is the role of Properties window in development of VB applications? [2 Marks] iv. [2 Marks] What is a Pseudo code?

V)

b) In VB.Net, We can access properties in two ways. By using Properties Window or by using code. Discuss briefly these two scenarios.
 [4 Marks]

c) Study the nested loop below and give its output.

[4 Marks]

Private Sub Form_Activate ()

For firstCounter= 1to 5

Print "Hello"

For secondCounter=1 to 4

Print "Welcome to .Net frameworks"

Next secondCounter

Next firstCounter

Print"Thank you"

End Sub