ng EASTERN UNIVERSITY, SRI LANKA DEPARTMENT OF MATHEMATICS SECOND YEAR EXAMINATION IN SCIENCE - 2012/2013 FIRST SEMESTER (Mar. /Apr., 2016) OC 207 - RAPID APPLICATION DEVELOPMENT (PROPER & REPEAT)	
r all questions	Time allowed: 02 hours
a we provide a service or create a product we alw plish a set of tasks.	or in university is anothering a second
Explain the basic pattern of general life cycle r Distinguish between sequential software develo development.	 Here Constant and the Annual Annua Annual Annual Annua Annual Annual Ann
Discuss the main disadvantages in traditional s traditional software development methods to su	
State clearly what is meant by Rapid Application Development (RAD).	
Discuss the role of code generators to take advantage of powerful development software using Rapid Application Development (RAD).	
D model the functional modules are developed are the complete product.	in parallel as prototypes and are integrated
Write down the three most important RAD man	nagement techniques.
Discuss the requirements of RAD model.	
Explain the RAD environment tools with the an	id of a diagram. 🤌
Discuss in detail the pros and cons of RAD model.	
Explain how you can create application software using RAD method. (Use an appropriate example to support your answer: a prototype example)	

- 03. From a programming viewpoint, Visual Basic (VB) is an object-oriented that consists of fundamental parts: a visual part and a language part.
 - a) List down the general features of VB.
 - b) In programming part, frameworks did all the work behind the scenes serving as an interface between the program and the operating system. Discuss the main two part. NET framework.
 - c) Describe briefly the general structure of an event procedure with a suitable examp
 - d) Explain briefly the following toolbox controls, by stating their important propertie their uses.
 - i. CheckBox
 - ii. ListBox
 - iii. Timer
 - iv. TabControl
 - e) Give the syntax of the following decision structures in VB .Net and write an approxexample for each of them.
 - i. If...ElseIf...Else
 - ii. Select Case
- 04. You can accomplish "looping" in one of two ways: by executing a block of statements afin number of times or by executing the block repeatedly until a specified condition is met.
 - a) Find the output of following vb.net code fragment:

Private Sub Form1_Load(sender As Object, e As EventArgs) Handles MyBase. Dim count, sum As Integer sum = 1000For count = 100 To 10 Step -10 sum -= count ListBox1.Items.Add(sum) Next End Sub

b) Consider the following piece of code in vb.net:

```
Private Sub Button1_Click(sender As Object, e As EventArgs) Handles Button1.Click
Dim m, n As Integer
Do
        n += 1
        m += n
        ListBox1.Items.Add(n & vbTab & m)
        If n = 10 Then
        Exit Do
        End If
        Loop
End Sub
```

Change and rewrite this piece of code using Do...Until Loop to get the same output.

c) Write a program in vb.net to sort three numbers using arrays. You can create an interface to support your answer.

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d) Discuss the benefits of ADO.net (ActiveX Data Objects .net) in VB.net.