EASTERN UNIVERSITY, SRILANKA

THIRD EXAMINATION IN SCIENCE-2004/2005

SECOND SEMESTER (Jul./Aug.,2007)

OC305 – Rapid Application Development
[Special Repeat]

Answer all questions   **Time:2Hours**

Q1)

1. Briefly explain the Data Types in Visual Basic 6.0?

   | 10 Marks |

2. Consider the following lines in Visual Basic 6.0.
   ```
   TStr = "Discovery"
   TStr1 = Mid(TStr,1,5)
   ```
   What would be the values of `TStr1` after executing the above code?

   | 10 Marks |

3. Write the syntax for choose statement. What will the value of **Y** after executing the following code?
   ```
   X=3
   Y=choose(X*X,"JAN","FEB","MAR","APR","MAY","JUN","JUL","AUG","SE
   P","OCT","NOV","DEC")
   ```

   | 10 Marks |

4. Write the syntax for WHILE statement and give an example code.

   | 20 Marks |

5. Write down the result of the following code.
   ```
   Dim arr(1 To 10) As String
   Dim v As Variant
   For i = 1 To 10
       arr(i) = str(i)&"+"&str(i)&"="&str(i+i)
   Next i
   For Each v In arr
               Debug.Print (v)
       Next v
   ```

   | 20 Marks |

6.
   a. Explain briefly, about the function `Format` and its arguments.(Give examples)
   b. Explain Briefly, about the functions `Left`, `Mid`, `UCase`, `len`, `Val`, `Str`. (Give Examples)

   | 2*15=30 Marks |

Q2)

1. Write the syntax of **Functions** and **Procedures** in VB 6.0.

| 20 Marks |

2.
   a. Explain how you can add items to a List box in designing time and in run time.
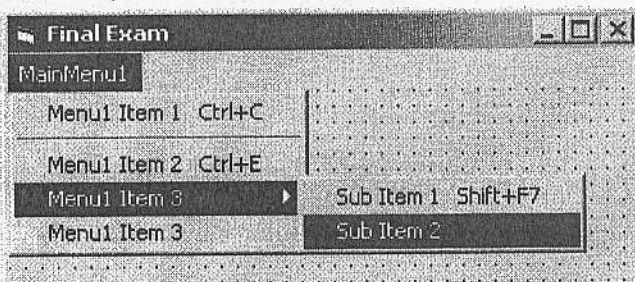   b. Write down the code for getting the current selection from List Box.

| 2*10=20 Mar |

3. Differentiate the Option Buttons, Check Boxes in Visual Basic 6.0.

| 10 Marks |

4.
   c. Explain briefly, how you can use Menu Editor to create a menu system as sh
   bellow. (Write how Menu Editor will display the following menu system)

| 20 Marks |

5.
   d. What are the uses of status bar in windows applications?
   e. Explain briefly, how you can add status bar to your application.
   f. Write down the VB code for displaying time on the first panel and date on
   second panel when the form loads.

| 3*10=30 Ma |

Q3)

A Database MyData.MDB contains a table called product with following fields.

Field Name	Type
P_ID	Number
P_Name	Text
P_Type	Texts
P_Prize	Currency

1. Briefly explain the ADO control in Visual Basic 6.0.
2. Explain the steps for connecting Microsoft ADO Data Control (ADODC) with a database C:\Data\MyData.MDB.
3. What is meant by Connection String?
4. Write down the code for adding field P_Name in to combo box.
5. Write down the SQL query for searching the product prize lies between 500LKR and 1500LKR.
6. Write down the code to display the result of the above query in a data grid.
7. Briefly explain how you can register the above database in Data Source Name DSN.
8. Design and draw interface form in such a way that the user can enter a new product in to the database. [**Note:** your form should have label with proper text and necessary controls]
9. What are the different between the functions `Hide` and `Unload`?
10. Briefly explain how you can hide the title bar in your application.

10*10=100 Marks

Q4)

1.
   a. What is Socket in Visual Basic 6.0?.

   10 Marks

   b. Briefly explain functions of SMTP and POP Servers.

   10 Marks

2.
   a. What is ActiveX Controls?
   b. Explain how you can create your own ActiveX control in Visual Basic 6.0.
   c. Give 2 advantage of ActiveX Control.
   d. Differentiate DLL files and EXE files.

   4*5=20 Marks

3. Write a function GetTotal in Visual Basic, with arguments ArrNum (array of integer) and Size (Size of the array). The above function should return the total of the numbers in the array.

   30 Marks

4. Write simple VB code to extract user name from "vbuser@esn.ac.lk" . Store user name in `usrName` .

   30 Marks