



UNIVERSITY OF COLOMBO, SRI LANKA

UNIVERSITY OF COLOMBO SCHOOL OF COMPUTING

(Successor to the Institute of Computer Technology (ICT), University of Colombo)

DEGREE OF BACHELOR OF INFORMATION TECHNOLOGY (EXTERNAL)

Academic Year 2003/2004 – 2nd Year Examination – Semester 4

IT4201: Rapid Application Development

PART 1 – Multiple Choice Question Paper

24th July, 2004

(ONE AND HALF HOURS)

Important Instructions:

- The duration of the paper is $1\frac{1}{2}$ **(one and half) hours.**
- The medium of instruction and questions is English.
- The paper has 35 questions and 8 pages.
- All questions are of the MCQ (Multiple Choice Questions) type.
- All questions should be answered.
- Each question will have 5 (five) choices with **one or more** correct answers.
- All questions will carry equal marks.
- There will be a penalty for incorrect responses to discourage guessing.
- The mark given for a question will vary from -1 (*All the incorrect choices are marked & no correct choices marked*) to +1 (*All the correct choices are marked & no incorrect choices are marked*).
- Answers should be marked on the special answer sheet provided.
- Note that questions appear on both sides of the paper.
If a page is not printed, please inform the supervisor immediately.
- Mark the correct choices on the question paper first and then transfer them to the given answer sheet which will be machine marked. **Please completely read and follow the instructions given on the other side of the answer sheet before you shade your correct choices.**

1) Which of the following array declarations in Visual Basic is/are correct?

- | | |
|---|--|
| (a) Public empNames(10) As String | (b) Dim empSalary() As Integer |
| (c) ReDim empBonus (intSize) As Boolean | (d) Public skillTypes (1 To 5) As String |
| (e) Dim empDetails(4,5) As Variant | |

2) Option Base statement in general declaration section is used to

- | | |
|---|---|
| (a) change the default lower bound of an array. | (b) change the upper bound of an array. |
| (c) change the data type of an array. | (d) change the size of a variable. |
| (e) change the scope of a variable. | |

3) Consider the following declaration:

Dim A1, A2, A3

What is the data type of A1?

- | | | |
|------------------|------------|-------------|
| (a) Integer | (b) String | (c) Variant |
| (d) User defined | (e) Real | |

4) Select the correct statement(s) from among the following which are related to different modules in Visual Basic.

- | |
|---|
| (a) A standard module contains code that is shared by several forms. |
| (b) A standard module has the .bas extension. |
| (c) <i>Form</i> modules can contain general procedures. |
| (d) The code in standard module is private by default. |
| (e) Each <i>form</i> in an application has an associated form module. |

5) One wants a *form* to be loaded into the memory without directly displaying it. Which of the following would accomplish it?

- | | | |
|----------|------------|---------|
| (a) Load | (b) Unload | (c) Dim |
| (d) Show | (e) ReDim | |

6) Consider the following statements:

- (i). One can specify that a menu control will be a separator bar by supplying a space (" ") as the Caption property.
- (ii). A menu control array is created during design time by setting the Index property of a menu item to 0.
- (iii). If one wants to create a menu option named "File" where the access key combination is "Alt" + "F", the caption should read as F&ile.

Which of the above statements is/are correct in relates to menus in Visual Basic.

- | | | |
|-------------------------|-------------------------|---------|
| (a) (ii) only. | (b) (i) and (ii) only | (c) All |
| (d) (ii) and (iii) only | (e) (i) and (iii) only. | |

7) If an error occurs in a procedure after the statement On Error Go To 0, then

- (a) the error handling routine at the label 0 executes.
- (b) the generic VB error handling routine processes the error.
- (c) execution continues at the line following the error.
- (d) execution will continue in the error handling code.
- (e) error handling is disabled.

8) Which of the following commands in Visual Basic removes a *form* from the screen view but keep it in memory?

- (a) Show
- (b) Load
- (c) Unload
- (d) Dim
- (e) Hide

9) Consider the following code segment:

```
Text1.SetFocus  
Text1.SelStart = 0  
Text1.SelLength = Len(Text1.Text)  
Text1.SelText = "Hello"
```

The above code segment in Visual Basic

- (a) replaces the text in the Text1 with "Hello".
- (b) will have the text "Hello" inserted at the beginning of Text1.
- (c) replaces 5 characters in the Text1 with "Hello".
- (d) will give 5 as the output.
- (e) will have the text Hello inserted at the end of Text1.

10) Consider the following statement:

```
frmForm1.Show vbModal
```

Which of the following is /are true?

- (a) frmForm1 does not allow the user to interact with other forms in the application at the same time.
- (b) it allows the user to switch to another form or dialog box.
- (c) it is the same as frmForm1.Show Modal 1.
- (d) it does not display frmForm1 even if the form is loaded in to the memory.
- (e) the statement will give an error.

11) Consider the following statements:

- (i). ByRef indicates that argument is passed by reference
- (ii). ByVal is the default in passing arguments in Visual Basic 6
- (iii). Protected is an access specifier in Visual Basic 6

Which of the following statements is/are true in relation to the above statements?

- (a) Only (i) is correct.
- (b) All are correct.
- (c) Only (i) and (ii) are correct.
- (d) Only (ii) is correct.
- (e) Only (ii) and (iii) are correct.

12) Consider the following statements

- (i). DAO stands for Data Access Objects
- (ii). DAO s are suited for connecting SQL server better than RDO
- (iii). RDO s stands for Remote Data Access Objects

Identify the correct statement(s) from among the above.

- | | | |
|-----------------------|---------------|-------------------------|
| (a) Only (i) | (b) All | (c) Only (ii) and (iii) |
| (d) Only (i) and (ii) | (e) Only (ii) | |

13) Consider the following four code statements and the incomplete code statement(s):

```
Dim mydb as Database -----(1)
Dim rst as recordset -----(2)
Dim strLastName as string ----(3)
Dim datPubDate as Date -----(4)
Set mydb = OpenDatabase (myPath) ----(5)
Set rst = mydb.OpenRecordset("Select * from Authors Pub_Date _____") -----(6)
```

If one is to use variable datPubDate and attribute Pub_Date, identify the correct Select statement from following the below five statements for line 6?

- | |
|---|
| (a) "Select * From Authors where Pub_Date = " & datPubDate |
| (b) "Select * From Authors where Pub_Date = " & datPubDate & "" |
| (c) "Select * From Authors where Pub_Date = #" & datPubDate & "#" |
| (d) "Select * from Authors where Pub_Date = datPubDate" |
| (e) "Select * from Authors where Pub_Date=&datPubDate & " |

14) Consider the following sequences:

- (i). Dynamic, Check, Static, Forward-Only
- (ii). Dynamic, Keyset,Static, Round-only
- (iii). Open, Keyset,Static, Forward-Only
- (iv). Dynamic,Keyset,Static,Forward-Only

Which of the above will be correct for ADOs?

- | | | |
|---------------|---------------|----------------|
| (a) Only (i) | (b) Only (ii) | (c) Only (iii) |
| (d) Only (iv) | (e) None | |

15) Consider the following statements:

Identify the correct statement(s) any of the following.

- (i). Dynamic Cursors allow one to view additions, changes and deletions by other users.
- (ii). Dynamic Cursors allow all types of movement through the Recordsets that do not rely on bookmarks.
- (iii). Keyset Cursors always support bookmarks and therefore allow all types of movement through the Recordsets.

Which of the above statements is/are correct?

- | | | |
|-------------------|----------|-----------|
| (a) (i) | (b) (ii) | (c) (iii) |
| (d) (i) and (iii) | (e) All | |

16) An interface is a set of

- | | | |
|--------------|-----------------------|-----------------------------|
| (a) Classes. | (b) Forms. | (c) Properties and methods. |
| (d) Modules. | (e) Event procedures. | |

17) Consider the following declaration, initialisations and three statements respectively:

```
Dim MyTime, MyDate, MyStr  
MyTime = #17:04:23#  
MyDate = #January 27, 1993#
```

- (i). MyStr = **Format**(MyTime, "h:m:s") ' Returns "17:4:23".
- (ii). MyStr = **Format**(MyTime, "h:m:s") ' Returns "05:4:23".
- (iii). MyStr = **Format**(MyTime, "hh:mm:ss AMPM") ' Returns "05:04:23 PM".

Which of the above statements is/are correct?

- | | | |
|-------------------------|-----------------------|------------------------|
| (a) Only (i) | (b) Only (i) and (ii) | (c) Only (i) and (iii) |
| (d) Only (ii) and (iii) | (e) All | |

18) Consider the following the three statements is VB 6:

- (i). MyStr = **Format**(5, "0.00%") ' Returns "000.00%".
- (ii). MyStr = **Format**("HELLO", "<") ' Returns "HELLO".
- (iii). MyStr = **Format**("This is it", ">") ' Returns "THIS IS IT".

Which of the above statements is/are correct?

- | | | |
|----------------|-----------------------|------------------------|
| (a) Only (i) | (b) Only (i) and (ii) | (c) Only (i) and (iii) |
| (d) Only (iii) | (e) All | |

19) Consider the following code segment and the three statement in VB 6

```
Dim strMyVariable as String * 8  
strMyVariable = "Elephant is a name of a mammal"  
Debug.print strMyVariable
```

- (i). "Elephant is" is printed on immediate window
- (ii). strMyVariable is an integer data type
- (iii). strMyVariable is string data type and can store only upto eight characters

Which of the above statements is/are correct?

- | | | |
|--------------|---------------|----------------|
| (a) Only (i) | (b) Only (ii) | (c) Only (iii) |
| (d) All | (e) None | |

20) An Erase statement

- | |
|--|
| (a) in arrays Behaves the same way reception of whether the array is fixed or dynamic. |
| (b) in a Fixed size array releases storage spaces. |
| (c) in Dynamic Arrays reinitializes elements of the array. |
| (d) in a fixed String array sets each element to zero. |
| (e) in a user defined type sets each element to Zero. |

21) Consider the following statements related to Error Handling in Visual Basic 6.

- (i). Error Trap is disabled when *On Error* statement is executed.
- (ii). More than one Error trap can be enabled at one time in Procedure.
- (iii). Error trap can be disabled by *On Error goto 0*.

Which of the above statements is/are correct?

- | | | |
|-----------------------|---------------|----------------|
| (a) Only (i) | (b) Only (ii) | (c) Only (iii) |
| (d) Only (i) and (ii) | (e) All | |

22) Consider the following three statement:

- (i). *Err* objects in Visual Basic 6 are intrinsic objects
- (ii). *Err* objects in Visual Basic 6 have global scope
- (iii). *Err* objects in Visual Basic 6 have methods and properties

Which of the above statements is/are correct?

- | | | |
|------------------------|---------------|----------------|
| (a) Only (i) | (b) Only (ii) | (c) Only (iii) |
| (d) Only (i) and (iii) | (e) All | |

23) Consider the following array declaration and the three statements given thereafter.

Dim x(10,4 to 6) as String

- (i). x is a Multi-dimensional Array and the First Dimension has 10 elements starting the first element from 0 to 9 which the second dimension has three elements.
- (ii). x is a two Dimensional Array and the First Dimension has eleven elements starting first element from 0 to 10 which the second dimension has three elements.
- (iii). Option Base 1 in the General Declaration Section will force the First Dimension to begin from 1.

Which of the above statements is/are correct?

- | | | |
|------------------------|---------------|-------------------------|
| (a) Only (i) | (b) Only (ii) | (c) Only (ii) and (iii) |
| (d) Only (i) and (iii) | (e) All | |

24) Consider the following statements:

- (i). Collections can be used in stead of arrays.
- (ii). In Collections when compared with arrays, elements only begin with 0.
- (iii). Collections can be influenced by Option Base 1.

which of the above statements is/are true

- | | | |
|------------------------|-----------------------|-------------------------|
| (a) Only (i) | (b) Only (i) and (ii) | (c) Only (ii) and (iii) |
| (d) Only (i) and (iii) | (e) All | |

25) Visual Basic 6 has/is

- | | |
|---|---|
| (a) a multiple inheritance supporting language. | (b) a single inheritance supporting language. |
| (c) an object based language. | (d) no classes. |
| (e) no constructors or destructors. | |

26) Consider the following three statement:

- (i). A collection object stores each item as user defined data type.
- (ii). A collection object stores in variant and it takes up 16 bytes.
- (iii). A collection is more efficient than an array.

Which of the above statements is/are true for Collections/Collection object?

- | | | |
|------------------------|---------------|----------------|
| (a) Only (i) | (b) Only (ii) | (c) Only (iii) |
| (d) Only (i) and (iii) | (e) All | |

27) Which of the statements is/are correct from among the following:

- | |
|--|
| (a) Public variables can be declared in procedures. |
| (b) Private variables are private to the procedure they appear in. |
| (c) Private variables are private to the module they appear in. |
| (d) Static variables can be only declared in modules. |
| (e) Values stored in static variables exist during the entire time the application is running. |

28) Consider the following three statement:

- (i). The two ways in which the variables can be declared in VB6 are implicit and explicit.
- (ii). In Explicit declaration of variable in the General Declaration of any module, Option Explicit should be placed.
- (iii). Implicit declaration is the best way of declaring variables in VB6.

Which of the among statement is /are correct?

- | | | |
|------------------------|-----------------------|-------------------------|
| (a) Only (i) | (b) Only (i) and (ii) | (c) Only (ii) and (iii) |
| (d) Only (i) and (iii) | (e) All | |

29) RAD comprises the following phases:

- | |
|--|
| (a) Business modeling, Data modeling, Check modeling, Process modeling, Testing and Turnover. |
| (b) Business modeling, Prototype building, Check modeling, Process modeling, Testing and turn over |
| (c) Business modeling, Data modeling, Process modeling, Testing and turn over, maintenance |
| (d) Business modeling, Data modeling, Process modeling, Application generation, Testing and turnover |
| (e) Data modeling, Data checking, Process modeling, Application generation, Testing and turnover. |

30) Consider the following three statements related to RAD:

- (i). It is a high speed adaptation of a linear Sequential Software development model.
- (ii). It is very similar to a Proto type model.
- (iii). Using RAD, Software can be developed within a very short span like 60 to 90 days.

Which of the above statements is /are correct?

- | | | |
|-------------------------|-----------------------|------------------------|
| (a) Only (i) | (b) Only (i) and (ii) | (c) Only (i) and (iii) |
| (d) Only (ii) and (iii) | (e) All | |

31) Visual Basic 6 implements Polymorphism through

- | | | |
|--------------------------------------|----------------------------|-------------------------|
| (a) Multiple-inheritance. | (b) Interface-inheritance. | (c) Single inheritance. |
| (d) the utilization of form classes. | (e) General Modules. | |

32) Consider the following statements:

- (i). RAD uses component based construction.
- (ii). ActiveX are Microsoft components; Java equivalents of ActiveX are JAVA BEANS.
- (iii). DCOM/COM are Microsoft Technologies for Building components.

Which of the above statements is/are correct?

- | | | |
|---------------|-----------------------|-------------------------|
| (a) Only (i) | (b) Only (i) and (ii) | (c) Only (ii) and (iii) |
| (d) Only (ii) | (e) All | |

33) The following statements are related to deployment of Visual Basic 6 applications. Identify the correct statement(s).

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|--|
| (a) Deployment is best done by using a Third party tool. |
| (b) For the web, application is posted to the Web server using the Package And deployment wizard. |
| (c) For the Standard Application it is done through Multiple .cab files or a single cab file which will fit into a single floppy by Package and Deployment Wizard. |
| (d) Deployment can be done by application to many computers. |
| (e) File instructions are stored in the .inf files for deployment. |

34) Consider the following statements:

- (i). An ActiveX is a unit of executable code .exe,.dll and .ocx.
- (ii). OCX are 32 bit and 16 bit whereas VBX s are 16bit.
- (iii). ActiveX object are c based upon Structured Programming.

Which of the above statements is/are correct?

- | | | |
|-------------------------|-----------------------------------|------------------------------------|
| (a) Only (i) is Correct | (b) Only (i) and (ii) are Correct | (c) Only (i) and (iii) are correct |
| (d) Only (ii) and (iii) | (e) All is correct | |

35) Consider the following code segment:

```
Dim MyForm as new Form1
MyForm.show
```

Identify the correct statement(s) from among the following.

- | |
|--|
| (a) MyForm is an ordinary Form object. |
| (b) Show method only loads up the MyForm into memory. |
| (c) New creates an instance to Form1 class at run form and by doing so produces as many copies of Form1 when ever the above code runs. |
| (d) The above code segment could be rewritten as:
Dim MyForm as Form1
Set MyForm = new Form1 |
| (e) Form1 is a method. |
