

CS410 Visual Programming

Final Term Examination – Spring 2005

Time Allowed: 150 Minutes

Please read the following instructions carefully before attempting any of the questions:

1. Attempt all questions. Marks are written adjacent to each question.
2. Do not ask any questions about the contents of this examination from anyone.
 - a. If you think that there is something wrong with any of the questions, attempt it to the best of your understanding.
 - b. If you believe that some essential piece of information is missing, make an appropriate assumption and use it to solve the problem.
 - c. Write all steps, missing steps may lead to deduction of marks.

****WARNING: Please note that Virtual University takes serious note of unfair means. Anyone found involved in cheating will get an `F` grade in this course.**

Total Marks: 50

Total Questions: 10

Question No. 1

Marks : 02

Windows common controls are implemented in

- ☐ Comctl32.dll
- ☐ Kernel32.dll
- ☐ User32.dll
- ☐ Gdi32.dll

Question No. 2**Marks : 14**

Write pseudo code of a complete program that creates a check box in such a way that on clicking the right mouse button to the check box, it displays a message box that shows a message "right button is clicked". In order to do that you are required to re-use the appropriate system window class and make necessary changes in it before registering again. Also write appropriate function calls and parameters in each step and explain each step clearly.

Question No. 3**Marks : 05**

Write the necessary steps to explicitly associate a resource with an application without using the resource editor options?

Question No. 4**Marks : 02**

The application can load its resources when

- ☐ res file is compiled
- ☐ rc file is compiled and but not linked yet
- ☐ res file is linked to the executable file
- ☐ resource.h file is included
- ☐ None of the above

Question No. 5**Marks : 03**

Why web servers are required to send MIME type in case of an HTTP reply?

Question No. 6**Marks : 05**

How can a dialog be centred? Explain it with example and appropriate function call.

Question No. 7**Marks : 02**

It is not possible to define our own window messages.

- ☐ True
- ☐ False

Question No. 8**Marks : 04**

How can a combo box be added to the toolbar? Write appropriate function.

Question No. 9

Marks : 02

What information about the resources is placed in resource.h?

- ☐ Definitions
- ☐ Identifiers
- ☐ Data structures
- ☐ Editors
- ☐ Size

Question No. 10

Marks : 02

Child window is confined to its parent's client area only.

- ☐ True
- ☐ False

Question No. 11

Marks : 05

Explain the basic difference(s) between a message box and a dialog box.

Question No. 12

Marks : 02

WM_INITDIALOG message is sent by the system:

- ☐ Before creating the dialog
- ☐ After creating and displaying the dialog
- ☐ Before creating dialog and after displaying it
- ☐ After creating the dialog and before making it visible
- ☐ None of the above

Question No. 13

Marks : 02

What is the first step the application should do to draw, in a window without using WM_PAINT message?

- ☐ Release device context
- ☐ Quit device context
- ☐ Retrieve device context
- ☐ Outline the shape to be drawn
- ☐ Set the background color of the window

Question No. 14**Marks : 04**

Explain why all the application related messages come directly to the modal dialog box if it is active and not through its owner window's window procedure?

Question No. 15**Marks : 02**

Identify the function which is used to change an existing item of the menu at run time

- ☐ AppendMenu
- ☐ InsertMenu
- ☐ ChangeMenu
- ☐ SetMenuItemInfo
- ☐ AddMenuItemInfo

Question No. 16**Marks : 04**

What are the benefit(s) of declaring a resource as DISCARDABLE?
