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## 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 clicking the right mouse button to the check box, it displays a message box that shows "right button is clicked". In order to do that you are required to re-use appropriate system window class and make necessary changes in it before registering. 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 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
- ☐ yes 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 WM\_PAINT message?

- ☐ Release device context
- ☐ Create 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?

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