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**M.C.A (Mgt. Faculty) (Semester – V) Examination, 2010  
(2005 Pattern)  
IT 5 : VISUAL C++ (Elective)**

Time : 3 Hours

Max. Marks : 70

***Instruction:*** Draw diagrams *wherever* necessary.

1. Explain the following terms: (**any four**) **20**

- a) TextOut Function
- b) Device Independent Graphics interface
- c) WM\_DESTROY Message
- d) IParam variable
- e) System Menu.

2. Write code to change the mouse cursor to the cursor identified by IDC\_CURSOR1 when the left mouse button is pressed. **10**

OR

Write an algorithm and then code to draw a rectangle using user defined red pen.

3. Write a source code for simple windows application which creates and displays a window and displays messages. **10**

OR

Write code which displays the client area mouse coordinates at the location of the mouse.

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4. Write code snippets to perform the following operations : **10**
- a) Draw a rectangle from the point (100,100) to (200, 250) using the default pen.
  - b) Draw a line from the (0,0) to the current mouse cursor position on the click of the left mouse button .
5. Using the window controls write a program to display a dialog box with student details. **10**
6. Write short note on : **10**
- a) Pop up Menu
  - b) Application Framework
  - c) Windows Menu.

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