

**MCA/D06****6233****Windows Programming and Visual C++****Paper : MCA-305**

Time : Three Hours]

[Maximum Marks : 50

Note :- Attempt any FIVE questions, selecting at least ONE question, from each unit.

**UNIT-I**

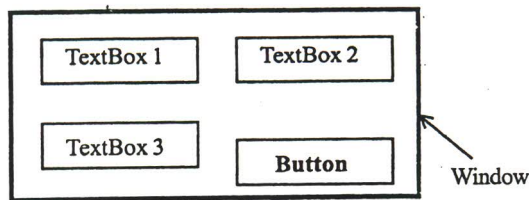
1. Explain various types of menus and their creation in VC++ using API/MFC.
2. (a) What are advantages and disadvantages of VC++ over any other object-oriented language ? Explain with suitable examples.  
(b) Write API/MFC code to interact with keyboard or mouse.
3. What is X-window ? Describe main functions for creating Window. Write code to attach your menu in your Window.

**UNIT-II**

4. Explain the role of animation on various aspects of Window with examples.
5. Explain with examples :
  - (a) Static controls
  - (b) Edit controls
  - (c) List box.
6. What are implicit and explicit resources in Windows Programming ? Explain in detail.
7. How you can create your own Active-X control in VC++ ? Explain various inbuilt Active-X controls.

**UNIT-III**

8. Write an API/MFC code such that when Pressing Button, the integer values in TextBox 1 and TextBox 2 get added and result Displayed in TextBox 3.



9. Write a program in VC++ for adding List Box, List Items, Check Box, Radio Button and Menus to your Window.
10. Write short notes on following :
  - (a) Psychic window
  - (b) Graphics device interface
  - (c) DEF Files
  - (d) Window resources.