

**Scheme – E**

**Sample Question Paper**

**Course Name : Diploma in Computer Engineering/ Information Technology**

**Course Code : CO/IF/CD**

**Semester : Fifth for CO and Sixth for CD**

**Subject Title : Windows Programming (Elective-I)**

**Marks : 100**

**12182**

**Time: 3 Hours**

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**Instructions:** 1] All questions are compulsory.

2] Figures to the right indicates full marks.

3] Assume suitable data wherever necessary.

4] Draw sketches wherever necessary.

**Q.1. a) Attempt any THREE of the following:**

**12 Marks**

- a) Write down the steps to create a new project in VC++ 6.0 for a 'C' under windows program.
- b) List GDI objects & explain any four of them?
- c) What are system and non-system keystrokes?
- d) Why and how the mouse is captured?

**Q.1. b) Attempt any ONE of the following:**

**06 Marks**

- a) What standard shapes can be drawn in a window? Explain with an example.
- b) Write a windows program to draw & paint a rectangle.

**Q.2. Attempt any FOUR of the following:**

**16 Marks**

- a) Explain "Window Procedure" with an example.
- b) State & explain GDI Primitives.
- c) What are keystroke messages, WM\_CHAR, WM\_KEYDOWN and WM\_KEYUP messages?
- d) What are the actions possible with mouse buttons?
- e) What are the 8 button notification codes?
- f) What is the difference between check box and radio button? What is the difference between check box and auto check box?

**Q.3 Attempt any FOUR of the following:**

**16 Marks**

- a) Explain GDI functions.
- b) Explain registering the “Window Class”.
- c) What are dead character messages?
- d) Explain ScreenToClient and ClientToScreen functions?
- e) Which are the two types of scroll bars and what is the difference between them?

**Q.4. a) Attempt any THREE of the following:**

**12 Marks**

- a) State & explain string functions.
- b) Which messages are used to indicate receiving & loosing focus?
- c) How child windows are used for Hit-Testing?
- d) Explain ‘printf’ in Windows programming

**Q.4. b) Attempt any ONE of the following:**

**06 Marks**

- a) Explain the parameters to WinMain()? What do they signify?
- b) What is the significance of GDI mapping modes?

**Q.5. Attempt any FOUR of the following:**

**16 Marks**

- a) Write down the smallest ‘C’ under windows program.
- b) Explain the functions used to set pixels & fill gaps.
- c) Explain additive effect of the HideCaret function?
- d) Explain the SetCapture function?
- e) How ShowWindow and EnableWindow functions are used?
- f) Explain the GetParent and SendMessage function?

**Q.6 Attempt any FOUR of the following:**

**16 Marks**

- a) Difference between Window and Dialog Box.
- b) Describe the six Keystroke message fields of the lParam variable?
- c) Why SetSysColors function should not be used?
- d) Describe the WM\_COMMAND message?
- e) What are system colors?