



Name :

Roll No. :

Invigilator's Signature :

CS/BCA/SEM-5/BCA-503/2009-10

2009

WINDOWS PROGRAMMING

Time Allotted : 3 Hours

Full Marks : 70

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

GROUP – A

(Multiple Choice Type Questions)

1. Choose the correct alternatives for the following : $10 \times 1 = 10$
 - i) The naming convention that adds a prefix to the identifier name to indicate the functional type of the identifier is known as
 - a) Handle
 - b) Message box ()
 - c) Hungarian notation
 - d) none of these.
 - ii) When is WM_CHAR message generated ?
 - a) when a mouse is clicked
 - b) when a key is pressed
 - c) when a window is created
 - d) when menu is created.
 - iii) GetStockObject () retrieves the
 - a) handle to main window function
 - b) coordinates of window's client area
 - c) handle to one of the stock (pens, brushes)
 - d) none of these.



- iv) What value does wParam contain ?
 - a) the number of times the key is pressed
 - b) the left button of the mouse is pressed
 - c) the right button of the mouse is double clicked
 - d) the ASCII value of the respective key pressed.
- v) GDI stands for
 - a) Graphical Device Interchange
 - b) Graphical Device Internet
 - c) Graphical Device Interaction
 - d) Graphical Device Interface.
- vi) To register a new WindowClass, the function that we call is
 - a) RegisterWindow ()
 - b) RegisterClass ()
 - c) RegisterWindowClass ()
 - d) none of these.
- vii) is long pointer to a string.
 - a) LSTR
 - b) LPCSTR
 - c) LPSTR
 - d) LCSTR.
- viii) Which message is generated whenever the client area of the window needs to be redrawn ?
 - a) WM_COMMAND
 - b) WM_CREATE
 - c) WM_PAINT
 - d) None of these.
- ix) Which message is generated whenever the user selects a Menu item or clicks a Push button ?
 - a) WM_COMMAND
 - b) WM_CREATE
 - c) WM_PAINT
 - d) None of these.
- x) In Windows, the largest size of a single segment in memory is
 - a) 32 kb
 - b) 64 kb
 - c) 128 kb
 - d) 16 kb.



GROUP – B
(Short Answer Type Questions)

Answer any *three* of the following.

3 × 5 = 15

2. Explain CreateWindow () with proper syntax.
3. Discuss WinMain() parameters.
4. Discuss various messages passed by mouse buttons.
5. What are the differences between Win 32 API and MFC's ?
6. How is DOS based programming different than Windows based programming ? What is program instance ? 4 + 1

GROUP – C
(Long Answer Type Questions)

Answer any *three* of the following.

3 × 15 = 45

7. Explain any *five* of the following functions : 5 × 3
 - a) DrawText ()
 - b) GetDC ()
 - c) TextOut ()
 - d) DefineWindowProc ()
 - e) PostQuitMessage ()
 - f) SetTimer ()
 - g) CheckRadioButton ().
8. a) What is dialog box ? How many types of dialog box are there ? Describe each of them.
b) Write down the necessary steps to create a dialog box window. 7 + 8

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9. a) Explain how clipboard works.
b) Discuss various clipboard functions. $5 + 5 + 5$
c) Discuss the difference between Combo boxes and List boxes.
10. a) Describe MSG structure for Windows Programming.
b) What is an SDK ?
c) Describe message loop.
d) What are the types of Windows messages ? Discuss them. $5 + 3 + 4 + 3$
11. a) What do you mean by MFC ?
b) Why do we use MFC ?
c) Write a simple MFC application to display a window.
d) Distinguish between generic classes and MFC classes. $3 + 3 + 6 + 3$
12. a) Distinguish between CFileDialog and CPrintDialog classes.
b) What is Polymorphism ?
c) What is Resource in Windows Programming ? Discuss various resources available in Windows. $5 + 4 + 6$

