## CS/BCA/SEM-5/BCA-503/2011-12 2011

# WINDOWS PROGRAMMING

ime 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)

Choose the correct alternatives for the following:

 $10 \times 1 = 10$ 

- i) The WM\_COMMAND message is generated when
  - a) left button of the mouse is clicked
  - b) any menu item is selected
  - c) any key of keyboard is passed
  - d) none of these.
- ii) The GetStockObject() function retrieves the
  - a) handle of the application
  - b) handle of the device context of window client area
  - c) handle of any system object like pen, font
  - d) none of these.

iii)	A complete window application requires			
	a)	three files	b)	two files
	c)	one file	d)	
iv)	· · · · · · · · · · · · · · · · · · ·			sent to the application
	a)	GetMessage()	b)	WaitMessage()
	c)	DispatchMessage	d)	None of these.
v)	The header file which includes for windows applicat is			for windows application
	a)	<stdio.h></stdio.h>	b)	<windows.h></windows.h>
	c)	<winmain.h></winmain.h>	d)	<conio.h></conio.h>
vi)	What is the full form of MFC?			
	a)	Multiple Frame Comm	and	
	b)	Module Frame Class		
	c)	Microsoft Foundation	Class	
	d)	Microsoft Frame Class	S.	
vii)	The module definition ( .DEF file ) is used by compiler to set			file ) is used by the
	a)	memory option	b)	linker
	c)	compiler	d)	execute.
viii)	i) To register a window class the function used is			unction used is
	a)	RegisterWindow	b)	RegisterWindowClass
	c)	RegisterClass	d)	Register.

- ix) MB\_YESNOCANCEL is a parameter of
  - a) WinMain

- b) UpdateData
- c) MessageBox
- d) ShowWindow?
- x) OnDraw(CDC \*pDC) function is a member of
  - a) CDocument
- b) CFrameWnd

c) CView

d) CWinApp

#### GROUP - B

### (Short Answer Type Questions)

Answer any three of the following.

 $3 \times 5 = 15$ 

- 2. Write the code for creating a simple windows.
- 3. Explain the compiling and linking for windows.
- 4. Explain about window environment.
- 5. a) What is meant by Win32 API?
  - b) Discuss about three Win32 APIs.
  - c) What is MessageBox ? Write down the parameters of MessageBox function.
- 6. a) Discuss the WinMain() parameters.
  - b) What is a message loop?
  - c) What is the difference between CUI and GUI?

#### GROUP - C

### (Long Answer Type Questions)

Answer any three of the following.  $3 \times 15 = 45$ 

- 7. a) Define the WNDCLASS structure in windows programming.
  - b) Write a complete Windows programme having separate message processing function with two menu items "First", "Second" and when the "First" is selected a text should be shown and similar for the "Second" menu.

    6 + 9

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- 8. a) What is child winddow? Explain about child window control classes.
  - b) What is the difference between class and structure?
  - c) What do you mean by inheritance?
- 9. a) What is Dialog Box? How does the dialog box work?
  - b) What is the difference between the modal and modeless dialog boxes?
  - c) What is the purpose of the WM\_INITDIALOG message?
  - d) Create a dialog box that takes two integer input from the end user. Then when end user clicks on the ADD button, then sum value of the two numbers are shown. (1+2)+4+2+6
- 10. a) How to create a listbox?
  - b) How to add string in the listbox?
  - c) How to retrieve a selected item from the listbox?
  - d) What is the meaning of the PRELOAD and LOADONCALL keywords? 6+2+3+(2+2)
- 11. Write short notes on any three of the following:  $3 \times 5$ 
  - a) PostQuitMessage()
  - b) MFC
  - c) MessageBox()
  - d) Windows Memory Management
  - e) DefWndProc()