

Name :

Roll No. :

Invigilator's Signature :

**CS/BCA/SEM-5/BCA-503/2013-14
2013**

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 × 1 = 10

- i) WM_CHAR message is generated
 - a) when mouse is clicked
 - b) when key is pressed
 - c) when a window is created
 - d) when menu is created.
- ii) GetStockObject() retrieves the
 - a) handle to main window function
 - b) co-ordinates of window's client area
 - c) handle to one of the stock
 - d) none of these.

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- iii) What is the full form of MFC ?
- a) Multiple Frame Command
 - b) Module Frame Class
 - c) Microsoft Foundation Class
 - d) Microsoft Frame Class.
- iv) A complete window application requires
- a) three files
 - b) two files
 - c) one file
 - d) four files.
- v) OnDraw (CDC *pDC) function is a member of
- a) CDocument
 - b) CFrameWnd
 - c) CView
 - d) CWinApp.
- vi) is long pointer to string.
- a) LSTR
 - b) LPCSTR
 - c) LPSTR
 - d) LCSTR.
- vii) To register a new WindowClass, the function that we call is
- a) RegisterWindow()
 - b) RegisterClass()
 - c) RegisterWindowClass()
 - d) none of these.
- 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.

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- ix) Dispatch message is required to
- a) dispatch a function b) dispatch a message
 - c) dispatch a pointer d) none of these.
- x) SKD stands for
- a) Software development Kit
 - b) System Development Kit
 - c) System Design Kit
 - d) none of these.

GROUP - B

(Short Answer Type Questions)

Write short notes on any *three* of the following.

3 × 5 = 15

2. What is the purpose of the WinMain function ? Discuss about its arguments. 2 + 3
3. Explain how to compile and link a WIN32 application.
4. Describe briefly the parameters of the WNDCLASS structure. How are these parameters initialized ? 3 + 2
5. What are windows API ? What are the advantages of Win 32 ? 3 + 2
6. What is the Graphical Device Interface ? How to create a logical pen and load it ? 2 + 3

GROUP - C

(Long Answer Type Questions)

Answer any *three* of the following. 3 × 15 = 45

7. a) What is dialog box ? How does the dialog box work ?
- b) What is the difference between modal and modeless dialog boxes ?

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- c) Explain different types of dialog boxes.
 - d) Create a dialog box that takes two integer input from the end user. When end user clicks on the ADD button then sum value of the two numbers is shown.
 $3 + 3 + 4 + 5$
8. a) Explain how clipboard works.
- b) Discuss various clipboard functions.
 - c) Discuss the difference between combo boxes and list boxes.
 - d) What is SDK ? $5 + 5 + 4 + 1$
9. a) What do you mean by MFC ? Why do we use MFC ?
 $2 + 3$
- b) Distinguish between generic classes and MFC classes. 4
 - c) Describe Application queue and Message queue. 6
10. a) Distinguish between CFileDialog and CPrintDialog classes.
- b) Explain Polymorphism, Class and object.
 - c) What is Resource in Windows Programming ? Discuss various resources available in Windows. $4 + 5 + 6$
11. Write short notes on any *five* of the following : 5×3
- a) API
 - b) MessageBox()
 - c) DefineWindowProc()
 - d) SetTimer()
 - e) DrawText()
 - f) TextOut()
 - g) PostQuitMessage()