

## BCA-503

### WINDOWS PROGRAMMING

Time Allotted: 3 Hours

Full Marks: 70

*The questions are of equal value.*

*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. Answer *all* questions.

10×1 = 10

(i) HWND is a handler of

- |              |                  |
|--------------|------------------|
| (A) function | (B) object       |
| (C) window   | (D) all of these |

(ii) The main function of windows programming is

- |               |                   |
|---------------|-------------------|
| (A) main()    | (B) wndproc()     |
| (C) winmain() | (D) none of these |

(iii) The initial entry point in windows program is

- |                |                     |
|----------------|---------------------|
| (A) Main ()    | (B) WinMain ()      |
| (C) wndProc () | (D) Geate Window () |

(iv) GDI stands for

- |                                  |                                |
|----------------------------------|--------------------------------|
| (A) graphical device interchange | (B) graphical device internet  |
| (C) graphical device interaction | (D) graphical device interface |

(v) Prefix w is used in Hungarian notation to denote

- |               |                        |
|---------------|------------------------|
| (A) char      | (B) short unsigned int |
| (C) BOOL(int) | (D) handle             |

- (vi) To register a new Window Class, the function that we call is  
(A) register window () (B) register class()  
(C) register window class () (D) none of these
- (vii) \_\_\_\_\_ is long pointer to a string  
(A) LSTR (B) LPCSTR  
(C) LPSTR (D) LCSTR
- (viii) The first 32 bit version of windows was  
(A) window'2000 (B) window NT  
(C) windows ME (D) windows'98
- (ix) GetDC() is used to obtain  
(A) a pointer to the device context  
(B) a reference to the device context  
(C) a handle to the device context  
(D) none of these
- (x) The macro to change the cursor to a hour glass is  
(A) IDC\_ARROW (B) IDC\_WAIT  
(C) IDC\_CROSS (D) IDC\_HELP

**GROUP B**  
**(Short Answer Type Questions)**

Answer any *three* questions.

3×5 = 15

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|----|--|---|
| 2. | What does a Windows program do when it is done processing a message? | 5 |
| 3. | What do you mean by Hungarian notation?                              | 5 |
| 4. | Discuss WinMain() Parameters.  | 5 |
| 5. | Discuss various messages passed by mouse buttons.                    | 5 |

- 6. How do you remove a pen or brush from device context? 5
- 7. How resource data is added to a windows program? 5

**GROUP C**  
**(Long Answer Type Questions)**

Answer any *three* questions. 3×15 = 45

- 8. (a) What are the different types of windows menages? Discuss in brief. 5
- (b) Describe system queue, application queque and ménage loop with a diagram. 5
- (c) Explain GDI. What in MFC? 5
- 9. (a) Explain how clipboard works. 5
- (b) Discuss various clipboard functions. 5
- (c) Distinguish between combo boxes and list boxes. 5
- 10.(a) Discuss Keyboard message processing. 6
- (b) Write three steps needed to use keyboard accelerators in a program. 9
- 11.(a) What is a DLL? How DLL's work? 6
- (b) Write a program to demonstrate a pop up window. 9
- 12. Discuss Modal, Modeless and System Modal Dialog Boxes in detail. 15