

CS/BCA/Odd/Sem-5th/BCA-503/2015-16



**MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY,
WEST BENGAL**

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.
All symbols are of usual significance.*

**GROUP A
(Multiple Choice Type Questions)**

1. Answer *all* questions. 10×1 = 10
- (i) GetDC() is used to obtain
- (A) a handle to the device context
 - (B) a reference to the device context
 - (C) a pointer to the device context
 - (D) none of these
- (ii) HWND is a handler of
- (A) function
 - (B) object
 - (C) window
 - (D) all of these

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- (iii) GDI stands for
- (A) Graphical Device Interchange
 - (B) Graphical Device Internet
 - (C) Graphical Device Interface
 - (D) Graphical Device Interconnection
- (iv) CF_TEXT is a format of
- (A) DLL
 - (B) message
 - (C) clipboard
 - (D) none of these
- (v) Which message is generated when user clicks a Push button?
- (A) WM_COMMAND
 - (B) WM_PAINT
 - (C) WM_DESTROY
 - (D) None of these
- (vi) RegisterClass () function is used to
- (A) register a new class
 - (B) register a new window class
 - (C) register a new child window
 - (D) all of these
- (vii) Which message is generated when the left mouse button is pressed?
- (A) RBUTTONDOWN
 - (B) LBUTTONDOWN
 - (C) WM_COMMAND
 - (D) WM_CHAR
- (viii) defWindowProc () is
- (A) system message processing function
 - (B) windows default message processing function
 - (C) message generating function
 - (D) none of these
- (ix) MFC stands for
- (A) Microsoft Fundamental Classes
 - (B) Microsoft Functional Classes
 - (C) Most Fundamental Classes
 - (D) Microsoft Foundation Classes

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(x) MB-OK constant is a parameter of

(A) WinMain()

(B) MessageBox()

(C) GetDC()

(D) WM_PAINT

GROUP B

(Short Answer Type Questions)

- Answer any *three* questions. 3×5 = 15
2. Describe Windows Message Processing function. 5
 3. Explain WM_PAINT message. 5
 4. Describe the process of creating a new class of windows. 5
 5. Explain message loop with an example. 5
 6. What is a Clipboard? Explain the Clipboard Functions. 1+4

GROUP C

(Long Answer Type Questions)

- Answer any *three* questions. 3×15 = 45
7. (a) What are the differences between modal and modeless dialog box? 5
(b) Distinguish between CFileDialog and CPrintDialog classes. 5
(c) What are common dialog boxes? List them. 5
 8. (a) Write the structure of a window program. 5
(b) Explain handle. 5
(c) What parameters are passed to WinMain() and what do they signify? 5

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9. (a) Write a program to create a window using MFC and attach a menu named File and submenu Load, Save, Exit and explain the various commands involved in the process. 10
(b) Define WNDCLASS structure. 5
- 10.(a) Explain Message-Loop with a diagram. Describe Application queue and Message queue. 8
(b) What are the parameters passed to MessageBox() function and what do they signify? 7
11. Write short notes on any *three* of the following: 3×5
(a) MSG structure
(b) SDK
(c) Lineto()
(d) DrawText()
(e) MFC