

# 12 Lecture - CS410

## Important Mcqs

### 1. What is a window class in graphical user interface programming?

- a) A specific type of window used for complex animations.
- b) A set of predefined windows provided by the operating system.
- c) A template that defines the structure and behavior of windows.
- d) A unique identifier assigned to each window in an application.

**Solution: c) A template that defines the structure and behavior of windows.**

### 2. Which function is used to register a window class in Windows API?

- a) CreateWindowEx()
- b) RegisterWindowClass()
- c) CreateWindowClass()
- d) RegisterClass()

**Solution: d) RegisterClass()**

### 3. What is the purpose of the window procedure in a window class?

- a) To register the window class with the operating system.
- b) To handle messages and events for the window.
- c) To create child windows within the main window.
- d) To set the initial style and attributes of the window.

**Solution: b) To handle messages and events for the window.**

#### 4. How are window classes identified in an application?

- a) By a unique name string.
- b) By a numeric identifier assigned at runtime.
- c) By their position on the screen.
- d) By the color of the window's title bar.

**Solution: a) By a unique name string.**

#### 5. What is the purpose of the "hInstance" parameter in the RegisterClass function?

- a) To specify the window's width and height.
- b) To pass a handle to the application's instance.
- c) To set the window's background color.
- d) To enable mouse interactions for the window.

**Solution: b) To pass a handle to the application's instance.**

#### 6. How does a window procedure process messages in Windows API?

- a) By writing messages to a log file.
- b) By using a message queue for incoming messages.
- c) By displaying messages in a pop-up dialog.
- d) By forwarding messages to other windows.

**Solution: b) By using a message queue for incoming messages.**

#### 7. What happens if a window class is unregistered before creating windows?

- a) Windows created with that class will become invisible.
- b) The application will crash when trying to create a window.
- c) The window class can never be registered again.
- d) Existing windows of that class will still be usable.

**Solution: b) The application will crash when trying to create a window.**

**8. How can you change the style of a window after it has been created using a window class?**

- a) By directly modifying the window's structure.
- b) By re-registering the window class with a new style.
- c) By using the SetWindowStyle function.
- d) By destroying the window and creating a new one.

**Solution: d) By destroying the window and creating a new one.**

**9. How does a window procedure handle the WM\_DESTROY message?**

- a) By creating a new window in its place.
- b) By freeing resources and cleaning up the window.
- c) By resizing the window to its default size.
- d) By changing the window's title text.

**Solution: b) By freeing resources and cleaning up the window.**

**10. What is the purpose of the "lpParam" parameter in the CreateWindowEx function?**

- a) To pass user-defined data to the window procedure.
- b) To specify the window's position on the screen.
- c) To set the initial width and height of the window.
- d) To enable or disable specific window features.

**Solution: a) To pass user-defined data to the window procedure.**