#### 1 Ans :-

# a. App Launch

# App Delegate Methods:

- 1. application(\_:willFinishLaunchingWithOptions:) Called when the app is about to finish launching.
- 2. application(\_:didFinishLaunchingWithOptions:) Called when the app has finished launching.

#### Scene Delegate Methods:

- scene(\_:willConnectTo:options:) Called when a scene is about to be connected to the app.
- sceneDidBecomeActive Called when the scene has moved from an inactive state to an active state.
- 3. sceneWillEnterForeground Called as the scene transitions from the background to the foreground.
- b. App Background (Press iPhone Home Button)

#### App Delegate Methods:

- 1. applicationWillResignActive Called when the app is about to move from active to inactive state.
- 2. applicationDidEnterBackground Called when the app has entered the background.

# Scene Delegate Methods:

- 1. sceneWillResignActive Called when the scene will move from an active state to an inactive state.
- 2. sceneDidEnterBackground Called as the scene transitions from the foreground to the background.
- c. Phone Locked (Lock Phone using Simulator Lock Button)

#### App Delegate Methods:

1. applicationWillResignActive - Called when the app is about to move from active to inactive state.

## Scene Delegate Methods:

- 1. sceneWillResignActive Called when the scene will move from an active state to an inactive state.
- d. Simulate Memory Warning (Simulator option -> Debug -> Simulate memory warning)

# App Delegate Methods:

1. applicationDidReceiveMemoryWarning - Called when the app receives a memory warning.

#### Scene Delegate Methods:

- 1. sceneDidReceiveMemoryWarning Called when the scene receives a memory warning.
- e. App Kill

#### App Delegate Methods:

1. applicationWillTerminate - Called when the app is about to terminate.

# Scene Delegate Methods:

There is no direct method for scene delegate related to app termination, but the scene will be in an inactive state and subsequently removed.

#### 2 Ans:

# a. App Launch

# UIViewController Methods:

- 1. init(coder:) or init(nibName:bundle:) Called when the view controller is being initialized.
- 2. loadView() Called when the view controller's view is being created.
- 3. viewDidLoad() Called after the view has been loaded into memory.
- 4. viewWillAppear Called just before the view is added to the app's view hierarchy.
- 5. viewDidAppear Called after the view has been added to the app's view hierarchy.
- b. App Background (Press iPhone Home Button)

#### UIViewController Methods:

- 1. viewWillDisappear Called just before the view is removed from the app's view hierarchy.
- 2. viewDidDisappear Called after the view has been removed from the app's view hierarchy.
- c. Phone Locked (Lock Phone using Simulator Lock Button)

#### UIViewController Methods:

- 1. viewWillDisappear Called just before the view is removed from the app's view hierarchy.
- 2. viewDidDisappear- Called after the view has been removed from the app's view hierarchy.
- d. Simulate Memory Warning (Simulator option -> Debug -> Simulate memory warning)

#### UIViewController Methods:

1. didReceiveMemoryWarning- Called when the app receives a memory warning. It's an opportunity to release any cached data, images, etc., that aren't in use.

# e. App Kill

There are no specific UIViewController lifecycle methods directly related to the app being killed. However, before the app is terminated, the following methods would typically be invoked:

#### UIViewController Methods:

- 1. viewWillDisappear- Called just before the view is removed from the app's view hierarchy.
- viewDidDisappear- Called after the view has been removed from the app's view hierarchy.