**Question 1. (Xcode)**

What is the function of the Code Sense feature in Xcode ?

1. Code Sense helps in switching between different circumstances such as development or release.
2. **Code Sense maintains an index that contains important information for your project.**
3. Code Sense creates a cache for the files which are being used frequently.
4. Code Sense maintains an index of files used in a project.

**Question 2. (User Experience)**

Locking all connections before editing the Nib files can be achieved by using:

1. An option in the Start Menu
2. **An option in the Preferences panel of Interface Builder.**
3. An option in the Preferences panel of Language Directory.
4. Any of the above

**Question 3. (Xcode)**

Which of the following debugging tasks are provided by Xcode to find and squash bugs in your code?

1. Add and set breakpoints.
2. View your call stack per thread.
3. View the value of variables by hovering the mouse pointer over them.
4. Execute a single line of code.
5. **All of the above**

**Question 4. (Media Layer)**

In a Cocoa framework, how do the UIKit classes UIControl, UITextField, UIButton, and UITableView deliver their services ?

1. **Off the shelf**
2. Behind the scenes
3. Generically
4. Through delegation and notification

**Question 5. (Graphics & Animation)**

What is the default value of the fontSize property of the CATextLayer class ?

1. 8.0
2. 12.0
3. 18.0
4. **36.0**

**Question 6. (Graphics & Animation or User Experience)**

What will happen if your filename ExampleImage.png is being called as follows:

[UIImage imageNamed:@”ExampleImage.PNG”]

1. **The image file will load in the simulator but not in iPhone OS 4.0 because it is case sensitive.**
2. The image file will load in iPhone OS 4.0 but not in the simulator because it is case sensitive.
3. The file will load in both the simulator and iPhone OS 4.0 because they are both case insensitive.
4. The file will load neither in the simulator and iPhone OS 4.0 because ther are both case sensitive.

**Question 7. (Objective-C)**

Which of the following copy functions will you use in Objective-C to create an entirely new compound object ?

1. Shallow Copy
2. **Deep Copy**
3. Both a and b

**Question 8. (Xcode)**

Which of the following languages can be used to write the code for Xcode projects ?

1. **C**
2. **C++**
3. **Objective-C**
4. **Objective-C++**
5. Java

**Question 9. (Media Layer)**

Which Core Audio Service framework is used to record, play back, pause, loop and synchronize audio in iPhone OS 4.0 ?

1. **Audio Queue**
2. Music Sequencing Services
3. Core Audio Clock
4. System Sound Services

**Question 10. (Graphics & Animation)**

Which of the following properties of the CAKeyframeAnimation class represents an optional array of NSNumber objects that define the duration of each keyframe segment ?

1. path
2. **keyTimes**
3. rotationmode
4. continuityValues

**Question 11. (User Experience or Objective-C)**

By default, is the search interface visible in the UISearchDisplayController class ?

1. Yes
2. **No**

**Question 12. (Graphics & Animation)**

What is the default value of the borderColor property of the CALayer class ?

1. 0
2. nil
3. **opaque black**
4. dark black

**Question 13. (Graphics & Animation or User Experience)**

You want to animate a layer’s opacity to 0 while moving it further away in the layer. Which of the following code snippets will you use ?

1. theLayer.opacity=0.0;  
   theLayer.zPosition = 0;
2. **theLayer.opacity = 0.0;  
   theLayer.zPosition = -100;**
3. theLayer.opacity = 0.0;  
   theLayer.zPosition = 100;
4. theLayer.opacity = 1.0;  
   theLayer.zPosition = 0;

**Question 14. (Graphics & Animation)**

Which of the following animation class provides simple interpolation between values for a layer property ?

1. **CABasicAnimation**
2. CAKeyframeAnimation
3. CATransition
4. CAAnimationGroup

**Question 15. (Xcode)**

What is the purpose of active executable in an Xcode project ?

1. **To specify which program is launched and how, when you run or debug from within Xcode.**
2. To select the appropriate configuration of the active target and each target it depends upon while building.
3. To define different build configurations for different cirumstances such as development or release.
4. To build products for Multiple Platforms.

**Question 16. (User Experiences)**

Before editing the Nibs, one should :

1. Unlock all connections.
2. **Lock all connections.**
3. Break all connections.
4. None of the above

**Question 17. (Graphics & Animation)**

What is the return value of function CGColorGetAlpha of class CGColor ?

1. An alpha intensity value in the range[-1, 1]
2. An alpha intensity value in the range[-0.5, 0.5]
3. **An alpha intensity value in the range[0, 1]**
4. An alpha intensity value in the range[1, 5]

**Question 18. (User Experience)**

What is the default value of allowsEditing property of UIImagePickerController class in iPhone OS 4.0 ?

1. **NO**
2. YES
3. enable
4. disable

**Question 19. (Networking, internet and security)**

Apple’s implementation of HTTP Live Streaming supports DRM (Digital rights management.)

1. True
2. **False**

**Question 20. (Graphic & Animation)**

Which of the following properties of the UIImage class affects the way the image data is displayed when drawn ?

1. CGImage
2. leftCapWidth
3. **imageOrientation**
4. scale
5. size

**Question 21. (Media Layer)**

When using a Cocoa framework, what will all ControlEvents method of UIControl class return in case it fails to create the object?

1. failure to create
2. no object to return
3. status code 420
4. **nil**

**Question 22. (Graphics & Animation)**

How much thime in seconds will it take to display an animation if you have 60 images using UIImageView class for the property animationDuration ?

1. 1
2. **2**
3. 10
4. 15

**Question 23. (Graphics & Animation)**

What will the hitTest: object of the CALayer class return if the point lies outside the receiver’s bounds rectangle ?

1. **nil**
2. true
3. false
4. **0**

**Question 24. (Core Service Layer)**

What is the datatype of the clockwise parameter of the CGContextAddArc function of the CGContext class ?

1. bool
2. **int**
3. CGFloat
4. CGContextRef

**Question 25. (Objective-C)**

Which of the following is the correct syntax for declaring a class in Objective-C ?

1. **@interface ClassName : ItsSuperclass  
   {  
   instance variable declarations  
   }  
   method declarations  
   @end**
2. @implementation ClassName : ItsSuperclass  
   {  
   instance variable declarations  
   }  
   method declarations  
   @end
3. @class ClassName : ItsSuperclass  
   {  
   instance variable declarations  
   }  
   method declarations  
   @end
4. All are correct

**Question 26. (Networking, internet and security)**

Which of the following iTunes application URLs are NOT valid?

1. http://itunes.com/apps/sega
2. **http://itunes.com/apps/TomandJerry**
3. **http://itunes.com/apps/Tom&Jerry**
4. **http://itunes.com/apps/brainchallengeTM**

**Question 27. (User Experience)**

When the genstrings tool discovers a key string used more than once in a single strings file, it :

1. deletes the comments from the individual entries and leaves one comment string without generating a warning.
2. **merges the comments from the individual entries into one comment string and generates a warning**
3. differentiates the comments from the individual entries into various strings and generates a warning.
4. None of the above

**Question 28. (Networking, internet and security)**

What is the default value of the remoteParticipantVolume property of the class GKVoiceChatService in iPhone OS 4.0 ?

1. 0.0
2. 0.5
3. **1.0**
4. 5.0

**Question 29. (User Experience)**

Which of the following are NOT a property of UIImagePickerController class in iPhone OS 4.0 ?

1. cameraCaptureMode
2. mediaTypes
3. **startVideoCapture**
4. **takePicture**
5. videoQuality

**Question 30. (Networking, internet and Security)**

Which of the following properties of the GKSession class is read-only ?

1. available
2. delegate
3. **displayName**
4. **peerID**
5. **sessionID**

**Question 31. (Networking, internet and security)**

What type of value is assigned to the loc-args child property of alert property in an Apple Push Notification ?

1. string
2. **array of strings**
3. number
4. dictionary

**Question 32. (Xcode)**

What happens if Xcode is not able to find a file or folder at the path defined for it in the project ?

1. Xcode skips the file or the folder and continue execution.
2. Xcode gives an alert with a description of the missing file.
3. **Xcode displays the item in red in the project window.**

**Question 33. (Xcode)**

What is the default setting to refer to file locations in your Xcode project ?

1. Relative to Build Product
2. Relative to Project
3. **Relative to Enclosing Group**
4. Relative to <source path>
5. Absolute Path

**Question 34. (Objective-C)**

Which of the following are the Derivative types defined in Objective-C ?

1. **short**
2. **long**
3. **long long**
4. int

**Question 35. (Xcode)**

Which of the following debugging environments are provided by Xcode to find and squash bugs in your code ?

1. Debugging from the text editor
2. Mini Debugger
3. Debugger window
4. GDB debugger console
5. **All of the above**

**Question 36. (User Experience)**

What will be the return value of function ABPersonComparePeopleByName when person1 goes before person2 in class ABPersonComparePeopleByName in iPhone OS 4.0 ?

1. **kCFCompareLessThan**
2. kCFCompareEqualTo
3. kCFCompareGreaterThan
4. None of the above

**Question 37. (Media Layer)**

When your session becomes active, which of the following iPhone OS 4.0 audio session categories allows other audio to continue playing ?

1. **AVAudioSessionCategoryAmbient**
2. AVAudioSessionCategorySoloAmbient
3. AVAudioSessionCategoryPlayback
4. AVAudioSessionCategoryRecord

**Question 38. (Core Service Layer)**

Which of the following are new features to have been introduced in iPhone OS 4.0 ?

1. **Multitasking**
2. Apple Push Notification Service
3. **Local Notification**
4. Gesture Recognizers

**Question 39. (User Experience)**

If the code is written using the Core Foundation and Foundation macros, the simplest way to create strings files is :

1. Using an option in the Preferences panel of Interfae Builder.
2. By merging the comments from the individual entries into one comment string.
3. By unlocking all connections.
4. **By using the genstrings command-line tool.**

**Question 40. (Graphics &Animation)**

What will be the value of the clockwise parameter of the CGContextAddArc function of the CGContext class if you want to create a counterclockwise arc ?

1. **0**
2. 1
3. True
4. False

**Question 41. (Media Layer)**

Which Core Audio Services framework handles positional and low-latency audio services in iPHone OS 4.0 ?

1. Audio Toolbox
2. Audio Unit
3. AV Foundation
4. Core Audio
5. **OpenAL**

**Question 42. (Xcode)**

What are universal binaries in Xcode ?

1. **These are executable files that can contain code and data for more than one architecture.**
2. These are file references which are generated by the target, such as an application
3. These are indexes that contain symbolic information for your project.
4. These are used to specify build location settings.

**Question 43. (Media Layer)**

Which of the following types of audio files has NO size restriction ?

1. AIFF
2. WAVE
3. **CAF**
4. All of the above have file size restrictions.

**Question 44. (Networking, internet and security)**

What will be the return value of CFHTTPMessageApplyCredentials function of CFHTTPMessage class if the authentication is successful?

1. **TRUE**
2. FALSE
3. nil
4. 0
5. 1

**Question 45. (Graphics & Animation)**

Consider the following code with 2 alternatives of vector operator for OpenGL ES:

highp float f0,f1;  
highp vec4 v0, v1;  
Alternative 1: v0 = (v1\*f0)\*f1;  
Alternative 2: v0 = v1 \* (f0 \* f1);

Which alternative demonstrates proper use of vector operations ?

1. Alternative 1
2. **Alternative 2**
3. Both alternatives demonstrate proper use of vector operations.

**Question 46. (Objective-C)**

When you send an object a retain message in Memory Management using Objective-C, what will happen ?

1. **Its retain count is incremented by 1.**
2. Its retain count is decremented by 1.
3. Its retain count remains same
4. Its retain count is set to 0.

**Question 47. (Graphics & Animation)**

Which of the following OpenGL ES objects is a simple 2D graphics image in a specified format ?

1. texture
2. buffer
3. shaders
4. **renderbuffer**
5. framebuffers

**Question 48. (User Experience)**

While opening Nib files, which of the following should not be ignored ?

1. **Objects in a Nib file typically have connections between them that should not be broken.**
2. If Objects in a Nib file have broken connections, they should not be restored.
3. The size of the files.
4. none of the above.

**Question 49. (User Experience)**

Which of the following methods is used for the purpose of creating your view objects in memory management ?

1. ~~Initialization methods~~
2. **loadView**
3. ~~viewDidLoad~~
4. ~~dealloc~~

**Question 50. (Core Service Layer)**

What is the value type of UTTypeConformsTo key of uniform type identifier for iPhone OS 4.0 ?

1. array of dictionaries
2. **array of strings**
3. string
4. dictionary
5. integer

**Question 51. (Objective-C)**

Which of the following directives are used to declare and define classes, categories, and protocols ?

1. **@interface**
2. **@implementation**
3. **@protocol**
4. @class
5. **@end**

**Question 52. (User Experiences)**

What will the following method call do if the value of the accessed counter is 0 ?

- (void)discardContentIfPossible

1. **It will discard the contents of the object because the counter is 0.**
2. It will not discard the contents of the object because the counter is required to be above 0.
3. It will not discard the content of the object as a negative counter value is required.
4. None of the above

**Question 53. (Core Service Layer)**

What is the datatype of the parameter inValidBitsPerChannel for the function CalculateLPCMFlags in CoreAudioTypes class in iPhone OS 4.0 ?

1. **UInt32**
2. bool
3. Float32
4. UInt64

**Question 54. (Networking, internet and security)**

What is the return value of SecRandomCopyBytes function of SecRandom class in iPhone OS 4.0 if the function completes successfully ?

1. **0**
2. 1
3. -1
4. true

**Question 55. (User Experience)**

Which of the following reasons will return a value of NO for the instance method startVideoCapture of class UIImagePickerController ?

1. Movie capture is already in progress.
2. The device does not support movie capture
3. The device is out of disk space.
4. **All of the above**

**Question 56. (User Experience)**

What will happen if an application is running and the user presses the Home button in iPhone OS 4.0 with 3GS ?

1. The application will be terminated.
2. **The application will be shifted to background execution context.**
3. ~~The application will continue to run until its execution ends.~~
4. ~~The application will be paused.~~

**Question 57. (Objective-C)**

Which of the following statements regarding Objective-C are correct ?

1. **In Objective-C, the keyword for NULL is nil.**
2. In Objective-C, #import and #include compiler directives carry out the same operations.
3. **In Objective-C, for the object-oriented constructs (such as method return values), id is the default data type.**
4. **The keyword nil has an id with a value of 0.**

**Question 58. (Internationalization)**

Which of the following need to be modified while localizing an application ?

1. **Nib files (windows, views, menus)**
2. **Static text**
3. **Icons and graphics**
4. **Dynamic text generated by your program.**

**Question 59. (User Experience)**

Which symbol is used as a syntactic marker for blocks of code in iPhone OS 4.0 ?

1. ~
2. $
3. **^**
4. \*

**Question 60. (Objective-C)**

Using the following function, what will you get from the default database ?

NSUserDefaults \*defs = [NSUserDefaults standardUserDefaults];  
NSArray \*languages = [defs objectForKey:@"AppleLanguages"];  
NSString \*preferredLang = [languages objectAtIndex:0];

1. **The list of preferred languages.**
2. The user's preferred language
3. The user’s default language
4. The list of languages supported by the application.

**Question 61. (Graphics & Animation)**

What is the data type of extendStart parameter of function CGShadingCreateAxial of class CGShading ?

1. CGFloat
2. CGPoint
3. **bool**
4. CGFunctionRef
5. int

**Question 62. (User Experiences)**

The genstrings tool can parse \_\_\_\_\_\_\_.

1. **C files with .c filename extension.**
2. **Objective-C files with .m fiename extension.**
3. **Java code files with .java filename extension.**
4. Nib files with any file name extension.

**Question 63. (Core Service Layer or Objective-C)**

What is the functionality of the beta parameter of function catlas\_caxpby in class cblas ?

1. Input vector X
2. Input vectory Y
3. Scaling factor for X
4. **Scaling factor for Y**

**Question 64. (Graphics & Animation)**

If you want to rotate an object using Core Animation, in radians, in the z axis, which of the following key paths of a layer’s CATransform3D matrix will you use ?

1. **rotation**
2. rotation.xy
3. rotation.x
4. rotation.y
5. **rotation.z**

**Question 65. (Media Layer)**

Which Audio Toolbox framework file defines an interface for reading and writing audio data in files in iPhone OS 4.0 ?

1. AudioConverter.h
2. **AudioFile.h**
3. AudioFileStream.h
4. AudioServices.h

**Question 66. (Media Layer)**

Which of the following is NOT the default behavior of an audio session in iPhone OS ?

1. **Playback is disabled and recording is enabled.**
2. When you move the Ring/Slient switch to the “silent” position, your audio is silenced.
3. When you press the Sleep/Wake button to lock the screen, or when the Auto-Lock period expires, your audio is silenced.
4. When your audio starts, other audio on the device – such as iPod audio that was already playing – is silenced.

**Question 67. (Networking, internet and security)**

Which of the following properties of ADBannerView class are read-only ?

1. **bannerLoaded**
2. currentContentSizeIdentifier
3. **bannerViewActionInProgress**
4. delegate
5. requiredContentSizeIdentifiers

**Question 68. (Networking, internet and security)**

Which of the folowing is NOT a parameter of function SecKeyDecrypt of the class SecCertificate in iPhone OS 4.0 ?

1. key
2. padding
3. cipherText
4. **certificate**

**Question 69. (Objective-C)**

Which of the following terms are related to Memory Management in Objective-C ?

1. **alloc**
2. **mutableCopy**
3. delete
4. **release**

**Question 70. (Networking, internet and security)**

Which of the following statements is correct regarding functions fopen and open in generic C ?

1. ~~fopen returns an error if the files does exist.~~
2. ~~fopen does not automatically create the file if it does not exist.~~
3. **open returns an error if the file does exist.**
4. open returns a file descriptor.

**Question 71. (Objective-C)**

Which of the following defined types is a dynamic object type in Objective-C ?

1. **id**
2. Class
3. SEL
4. BOOL

**Question 72. (Networking, internet and security)**

Which part of the HTTP Live Streaming is responsible for taking input streams of media and encoding them digitally ?

1. **Server component**
2. Distribution component
3. Client software
4. None of the above