

Question 1

1 out of 1 points



The _____ symbol is used to forcibly retrieve a value contained within an optional variable.

Selected Answer: !

Correct Answer:

Evaluation Method	Correct Answer	Case Sensitivity
Contains	!	
Contains	exclamation	

Question 2

1 out of 1 points



Consider the following dictionary:

```
var dog = [
    400:999,
    932:"Poodle",
    781:true,
    "isSleeping":61.111
]
```

What is the data type of this dictionary? Fill in the blanks.

var dog: [_____]

Selected Answer: Any:Any

Correct Answer:

Evaluation Method	Correct Answer	Case Sensitivity
Contains	[Any:Any]	
Contains	Any:Any	

Question 3

1 out of 1 points



True or False? In Swift, all functions must explicitly specify a return type.

Selected Answer: False

Answers: True

False

Question 4

0 out of 1 points



Which of the following are valid declarations of enums in Swift?

Selected Answers:

```
enum Color: Int {
    case green = 1
    case blue = 2
    case purple
    case pink
    }
```



Answers:

```

enum Color {
    case green, blue, purple, pink
}
enum Color {
    case green
    case blue
    case purple
    case pink(value:String)
}
enum Color:Int {
    case green = 1
    case blue = 2
    case purple
    case pink
}
enum Color {
    case green, blue, purple, pink
}
enum Color:String {
    case "green", "blue", "purple", "pink"
}

```

Question 5

0 out of 1 points



In IOS, what class must be extended when implementing a custom layout for a table row cell?

Selected Answer: UIViewController

Correct Answer:

Evaluation Method	Correct Answer	Case Sensitivity
Contains	UITableViewCell	

Question 6

1 out of 1 points



In a Swift class, the function that instantates new instances of the class is called a(n) _____.

Selected Answer: initializer

Correct Answer:

Evaluation Method	Correct Answer	Case Sensitivity
Contains	initializer	

Question 7

1 out of 1 points



In IOS, which of the following user interface components uses a data source to display a list of data? Choose all that apply.

Selected Answers: UIPickerView

TableView

Answers:

UIPickerView

ListView

TableView

RecyclerView

Question 8

1 out of 1 points



In Swift OOP, the ____ keyword is used by a class to refer to itself.

Selected Answer: ☒ self

Correct Answer:

Evaluation Method	Correct Answer	Case Sensitivity
<input checked="" type="checkbox"/> Contains	self	

Question 9

1 out of 1 points



In a typical IOS project, images can be stored in _____.

Selected Answer: ☒ Assets.xcassets

Answers:

- ☐ App.Delegate
- ☐ Main.storyboard
- ☐ ViewController.swift
- ☒ Assets.xcassets

Question 10

1 out of 1 points



In Swift, overridden functions are marked with the ____ keyword.

Selected Answer: ☒ override

Correct Answer:

Evaluation Method	Correct Answer	Case Sensitivity
<input checked="" type="checkbox"/> Contains	override	

Question 11

0 out of 1 points



You have a class called **Employee** that contains a mutable, non-optional stored property called **socialSecurityNumber**. By default, **socialSecurityNumber** is set to "000-000-000"

You create an read-only variable of type Employee, called **e1**. You initialize e1 using the following function:

```
init(ssn:String?) {
    socialSecurityNumber = ssn!
}
```

You run your code in XCode and observe the result. What happens? Choose the best answer.

Selected ☒ A.

Answers: The program does not compile because in Swift, stored properties cannot be modified.

☒ D.

The program does not compile because the initializer's function argument is an optional, and socialSecurityNumber is non-optional

Answers: A.

The program does not compile because in Swift, stored properties cannot be modified.

☒ B.

The program successfully compiles because the class' stored properties must contain a value; and, in this case, `socialSecurityNumber` is instantiated to the value the user specifies in the initializer

C.

The program successfully compiles because the class' stored properties must contain a value, and `socialSecurityNumber` is instantiated with 000-000-000.

D.

The program does not compile because the initializer's function argument is an optional, and `socialSecurityNumber` is non-optional

Question 12

1 out of 1 points



In an IOS application, a(n) _____ is used to define the logic of a screen.

Selected Answer: ☒ View Controller

Answers: App.Delegate
☒ View Controller
Assets.xcassets
storyboard

Question 13

1 out of 1 points



Steppers, Sliders, and Segemnt Controls have the *Changed* event, an event that detects when the value of the stepper/slider/segment control changes. This event's handler function accepts a single parameter called *sender*. By default, what data type does IOS assign to the *sender* parameter.

Selected Answer: ☒ Any

Answers: ☒ Any
UIView
Int
String

Question 14

1 out of 1 points



Which of the following code snippets will produce the output:

1
2
3

Choose all that apply.

Selected Answers:

```
for i in 20...22 {
    print(i-19)
}
```



Answers:

```
for i in 20...22 {
    print(i-19)
}
```



```
for i in 1..4 {
    print(i)
}
```

```
let i = 1
while (i < 4) {
    print(i)
    i = i+1
}
```

```
for (var i = 1; i < 4; i=i+1) {
    print(i)
}
```

Question 15

0 out of 1 points



You have the following function

```
func displayValue(x:Double, y:Int) {
    // some implementation code here
}
```

Which of the following code snippets correctly calls the **displayValue(..)**function?

Selected Answer: displayValue(a, b); // where a is a Double and b is an Int

Answers:



None of the provided answers will call the function

displayValue(a, b); // where a is an Int and b is a Double

displayValue(a, b); // where a is a Double and b is a Float

displayValue(a, b); // where a is a Double and b is an Int

Question 16

0 out of 1 points



In IOS, which of the following items are included as part of the table view's user interface?

Selected Answers:



Row



Navigation button

Answers:



Section



Row



Index

Navigation button

Question 17

1 out of 1 points

An IOS UIAlertView can be configured to appear as either a popup box, or a dialog that slides up from the bottom of the screen.



What is the name of the dialog box that slides up from the bottom of the screen?

Selected Answer: action sheet

Answers:

- alert
- popup
- dialog
- action sheet

Question 18

0 out of 1 points



In Swift, which of the following items is used to specify the functional behaviour of a data type, but does not provide any implementation details?

Selected Answer: struct

Answers:

- enumeration
- protocol
- extension
- struct

Question 19

1 out of 1 points



In IOS, what file is typically used to design the user interface of the application? Choose the best answer.

Selected Answer: Main.storyboard

Answers:

- ViewController.swift
- App.Delegate
- Main.storyboard
- Assets.xcassets

Question 20

1 out of 1 points



Consider the following enumeration:

```
enum Bonus:Double {
    case Manager = 0.40
    case Parttime = 0.8
    case Fulltime = 1.2
}
```

The value of the "Fulltime" can be extracted using the enumeration's _____ property.

Selected Answer: rawValue

Correct Answer:

Evaluation Method	Correct Answer	Case Sensitivity
Contains	rawValue	

Question 21

1 out of 1 points



What UIPickerView function is responsible for controlling the text that is displayed in the UIPickerView?

Selected



Answer:

func pickerView(_ pickerView: UIPickerView, titleForRow row: Int, forComponent component: Int)

Answers:

func pickerView(_ pickerView: UIPickerView, widthForComponent component: Int)

func pickerView(_ pickerView: UIPickerView, cellForRowAt row: Int, forComponent component: Int)



func pickerView(_ pickerView: UIPickerView, titleForRow row: Int, forComponent component: Int)

func pickerView(_ pickerView: UIPickerView, numberOfRowsInComponent component: Int)

Question 22

1 out of 1 points



In a multi screen IOS application, the _____ view controller indicates which screen is the first screen of the application.

Selected Answer: initial

Correct Answer:

Evaluation Method**Correct Answer****Case Sensitivity**

Exact Match

initial

Question 23

1 out of 1 points



Write the Swift code to explicitly declare a read-only integer variable called "m" that is initially set to the value 30.

Selected Answer: let m: Int = 30

Correct Answer:

Evaluation Method**Correct Answer****Case Sensitivity**

Contains

let m:Int = 30

Question 24

1 out of 1 points



Here is an array:



```
var cities = [
    "Mexico City",
    "New York City",
    "Los Angeles",
    "Chicago",
    "Washington",
    "San Francisco",
    "Boston",
```

"Toronto"
]

What is the code to delete "Chicago" from the array?

Selected Answer:  cities.remove(at:3)

Answers:

-  cities[2] = nil
-  cities.remove(at:3)
- delete cities["Chicago"]
- cities.removeValues("Chicago")


Question 25

1 out of 1 points




What is the output of the code?

```
var x:Int = 100
var y:Double = 100
var b:Boolean = String(x) == String(y)
print(b)
```

Selected Answer:  None provided answers are correct. The provided code has syntax errors, compile-time errors, or logical errors

Answers:

- 100
- true
-  None provided answers are correct. The provided code has syntax errors, compile-time errors, or logical errors
- false

Question 26


0 out of 1 points



In Swift OOP, a _____ property can return a value, but cannot store a value.

Selected Answer:  var

Correct Answer:


Evaluation Method	Correct Answer	Case Sensitivity
 Contains	computed	

Question 27

1 out of 1 points



Which of the following statements are TRUE about OOP in Swift? Choose all that apply.

Selected Answer:  B.

Answers:

- By default, Swift's computed and stored properties are accessible from outside the class

- Answers:
- ☒ D. Stored properties of a class can be declared as optional
 - ☐ A. Classes can be in extended, but not inherited.
 - ☒ B.
By default, Swift's computed and stored properties are accessible from outside the class
 - ☐ C.
In Swift, it is mandatory for stored properties to be accessed through a explicitly defined getter and setter function.
 - ☒ D. Stored properties of a class can be declared as optional

Question 28

0 out of 1 points



Function _____ occurs when a child class contains a function that has the same name as a function in the parent class; but with different parameters.

Selected Answer: ☒ override

Correct Answer:

Evaluation Method	Correct Answer	Case Sensitivity
<input checked="" type="checkbox"/> Contains	overloading	

Question 29

0 out of 1 points



What is the data type of abc? Choose all that apply.

let abc = (9 / 6) * 4 / 3

- Selected Answers: ☒ Float
☒ Double
- Answers:
- ☐ Float
 - ☐ Double
 - ☒ Int
 - ☐ Boolean

Question 30

0 out of 1 points



In XCode, the _____ is used to view the configurable user interface properites (ie: color, font, etc) of a UI element. Choose the best answer.

- Selected Answer: ☒ Identity Inspector
- Answers:
- ☐ Connections Inspector
 - ☐ Identity Inspector
 - ☐ Size Inspector
 - ☒ Attributes Inspector

Question 31

1 out of 1 points



In IOS, a click handler can be attached to a button using a(n) _____.

Selected Answer: ☒ ActionAnswers: ☐ Event listener☐ Outlet☐ Weak variable☒ Action**Question 32**

1 out of 1 points



In IOS, all view controllers subclass the _____ class.

Selected Answer: ☒ UIViewController

Correct Answer:

Evaluation Method**Correct Answer****Case Sensitivity**☒ Contains

UIViewController

Question 33

0 out of 1 points



In IOS, which of the following techniques can be used to safely obtain the user input of a text box?

Selected Answers: ☒ guard-let☒ if-let

Answers:

☒ guard-let☒ if-let☒ nil coalescing☐ forced unwrapping**Question 34**

1 out of 1 points



True or False? When developing an IOS app, it is mandatory for every screen to be attached to a corresponding ViewController file.

Selected Answer: ☒ FalseAnswers: ☐ True☒ False**Question 35**

0 out of 1 points



In IOS, which built in table view row layout provides two labels stacked on top of each other?

Selected Answer: ☒ Left DetailAnswers: ☐ Right Detail☐ Detail Text☒ Subtitle

Left Detail

Question 36

0 out of 1 points



In IOS's table view functions, the _____ function parameter can be used to access to the current row the table view is processing.

Selected Answer: didSelectRow

Correct Answer:

Evaluation Method	Correct Answer	Case Sensitivity
Exact Match	indexPath	

Question 37

1 out of 1 points



What IOS tableview function can be used to detect which row of the table the user clicked on?

Selected Answer: `func tableView(_ tableView: UITableView, didSelectRowAt indexPath: IndexPath)`

Answers: `func tableView(_ tableView: UITableView, moveRowAt sourceIndexPath: IndexPath, to destinationIndexPath: IndexPath)`

`func tableView(_ tableView: UITableView, didSelectRowAt indexPath: IndexPath)`

`func tableView(_ tableView: UITableView, titleForRowAt section: Int)`

`func tableView(_ tableView: UITableView, commit editingStyle: UITableViewCell.EditingStyle, forRowAt indexPath: IndexPath)`

Question 38

0 out of 1 points



In IOS, a(n) _____ is a user interface element that allows the user to toggle between an "on" or "off" state.

Selected Answer: [None Given]

Answers: switch
stepper
slider
segment control

Question 39


0 out of 1 points



You have the following data type definition.

```
class Abc: P, Q {
    // some code goes here
}
```

Based on the above definition, what could P be? Choose all that apply.

Selected Answers:  [None Given]

Answers:

- ☐ A variable
- ☒ A protocol
- ☐ An enumeration
- ☒ A class

Question 40

0 out of 1 points



In IOS, which UIKit component is typically used to display text on the screen?

Choose the best answer.

Selected Answer:  [None Given]

Answers:

- ☒ UILabel
- ☐ UIButton
- ☐ UITextView
- ☐ UITextBox
