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UNIVERSITY OF PETROLEUM AND ENERGY STUDIES End Semester Examination, July 2020	
Course: Mobile Application Development Using IOS	Semester: IV
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Instructions:	



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 1. Multiple Answer: 11: What output will be produced by the c...Points: **1**

Question

What output will be produced by the code below?

```
import Foundation
let rounded: Int = round(10.5)
print("Rounding 10.5 makes \(rounded)")
```

Answer

Rounding 10.5 makes 11

Rounding 10.5 makes 10.5

Rounding 10.5 makes nil

None of these

2. Multiple Answer: 12: What output will be produced by the c...

Points: **1**

Question

What output will be produced by the code below?

```
var i = 1

mainLoop: repeat {
  i += 2

  switch i % 2 {
  case 0:
    break mainLoop
  default:
    break
  }
} while true

print("Complete!")
```

Answer

Complete!

1

The code will not compile

None of these

3. Multiple Answer: 13: Once this code is executed, how many ...

Points: 1

Question

Once this code is executed, how many items will be in the result array?

```
let names: [String?] = ["Barbara", nil, "Janet", nil, "Peter", nil, "George"]
```

```
let result = names.compactMap { $0 }
```

Answer

7

 4

nil

None of these

 4. Multiple Answer: 14: What output will be produced by the c...

Points: 1

Question

What output will be produced by the code below?

```
struct TaylorFan {  
    static var favoriteSong = "Shake it Off"  
    var name: String  
    var age: Int  
}  
  
let fan = TaylorFan(name: "James", age: 25)  
print(fan.favoriteSong)
```

Answer

Shake it off

James : 25

nil

None of these

5. Multiple Answer: 16: What output will be produced by the c...

Points: **1**

Question

What output will be produced by the code below?

```
func greet(_ name: inout String) {  
    name = name.uppercased()  
    print("Greetings, \(name)!")  
}
```

```
var name = "Mal"  
greet(name)  
print("Goodbye, \(name)!")
```

Answer

GREETINGS Mal

GOODBYE MAL

GREETINGS MAL

None of these

6. Multiple Choice: 16: What output will be produced by the c...

Points: **1**

Question

What output will be produced by the code below?

```
let names = ["Pilot": "Wash", "Doctor": "Simon"]  
let doctor = names["doctor"] ?? "Bones"  
print(doctor)
```

Answer

Wash

Simon

Wash, Simon

None of these

7. Multiple Choice: 17: What output will be produced by the c...

Points: 1

Question

What output will be produced by the code below?

```
enum MyError: Error {  
    case broken    case  
    busted    case  
    badgered  
}  
  
func willThrowAnError() {  
    throw MyError.busted  
}  
  
do { try  
    willThrowAnError() } catch  
    MyError.busted {  
    print("Code was busted!")  
} catch { print("Code just  
didn't work")  
}
```


Answer

Code was busted!

Code just didn't work

0

None of these

8. Multiple Choice: 18: We can return multiple values in swif...

Points: 1

Question We can return multiple values in swift from function by using

Answer

Array

Tuple

Both A and B

None of these

9. Multiple Choice: 19: Which of the following is an incorrec...

Points: 1

Question Which of the following is an incorrect data type in Swift

Answer

UInt

Double

Char

Optional

10. Multiple Choice: 1: What output will be produced by the c...

Points: 1

Question

What output will be produced by the code below?

```
let names = ["Simon", "River", "Book"]
```

```
names.forEach {  
    print($1)  
}
```

Answer

Simon

River

Book

 None of these 11. Multiple Choice: 20: If you do not want to mention externa...

Points: 1

Question

If you do not want to mention external name in function call then what should be preceded before the parameters while defining the function ?

Answer

?

!

 _

12. Multiple Choice: 2: What output will be produced by the c...

Points: 1

Question

What output will be produced by the code below?

```
let bigNumber = Int.max
let biggerNumber = bigNumber + 1
print(biggerNumber)
```

Answer

55

32

nil

 None of these 13. Multiple Choice: 3: What output will be produced by the c...

Points: 1

Question

What output will be produced by the code below?

```
func greet(_ name: inout String) {  
    name = name.uppercased()  
    print("Greetings, \(name)!")  
}
```

```
var name = "Mal"  
greet(name)  
print("Goodbye, \(name)!")
```

Answer

Greetings

Goodbye

GREETINGS, GOODBYE

None of these

14. Multiple Choice: 4: When this code is executed, what data...

Points: **1**

Question

When this code is executed, what data type does convertedNumber have?

```
let possibleNumber = "1701"
```

```
let convertedNumber = Int(possibleNumber)
```

Answer

Int

UInt

Int32

 Int? **15. Multiple Choice: 5: What output will be produced by the c...**Points: **1****Question**

What output will be produced by the code below?

```
import Foundation
let crew = NSMutableDictionary()
crew.setValue("Kryten", forKey: "Mechanoid")
print(crew.count)
```

Answer 1

2

3

None of these

16. Multiple Choice: 5: What output will be produced by the c...

Points: 1

Question

What output will be produced by the code below?

```
var crew = ["Captain": "Malcolm", "Doctor": "Simon"]  
crew = [:]  
print(crew.count)
```

Answer

 1 2 4 None of these 17. Multiple Choice: 5: When this code is executed, how many ...

Points: 1

Question

When this code is executed, how many items will the names array contain?

```
var names = [String]()  
names.reserveCapacity(2)  
names.append("Amy")  
names.append("Rory")  
names.append("Clara")
```

Answer

1

2

3

0

18. Multiple Choice: 6: Read the code below: var foo...

Points: 1

Question

Read the code below:

```
var foo: Float = 32
```

```
var bar: Double = 32
```

Assuming no typecasting, which of the following statements is true?

Answer

Value of foo is assigned to bar

Neither variable can be assigned to the other

The code will not compile

None of these

19. Multiple Choice: 6: What output will be produced by the c...

Points: 1

Question

What output will be produced by the code below?

```
let point = (556, 0)
switch point {
case (let x, 0):
    print("X was \(x)")
case (0, let y):
    print("Y was \(y)")
case let (x, y):
    print("X was \(x) and Y was \(y)")
}
```

Answer

X was 556 and Y was 0

X was 556

The code will not compile

None of these

20. Multiple Choice: 6: When this code is executed, what valu...

Points: **1**

Question

When this code is executed, what value does result contain?

```
func sum(numbers: Int...) -> Int {  
    var result = 0  
  
    for number in numbers {  
        result += number  
    }  
  
    return result  
}  
  
let result = sum(numbers: [1, 2, 3, 4, 5])
```

Answer

0

15

nil

None of these

21. Multiple Choice: 1: What are the collection types in Swift?

Points: 2

Question

What are the collection types in Swift?

Answer



Dictionary and array

Array and library

Dictionary and library

Library, dictionary and array

22. Multiple Choice: 2: Swift is which type of language?

Points: 2

Question	Swift is which type of language?
Answer	<p>scripting language</p> <p>object-oriented programming language</p> <p>type safe language</p> <p><input checked="" type="checkbox"/> All of the above</p>

23. Multiple Choice: To create constants in swift we use k...

Points: 2

Question	To create constants in swift we use keyword
Answer	<p>conts</p> <p><input checked="" type="checkbox"/> let</p>

constant

None of the above

24. Multiple Choice: To create mutable object _____...

Points: 2

Question	To create mutable object _____ is used.
Answer	<p>let</p> <p><input checked="" type="checkbox"/> var</p> <p>both a & b</p> <p>None</p>

25. Multiple Choice: We can return multiple values ins swi...

Points: 2

Question	We can return multiple values ins swift from function by using
Answer	<p>Array</p> <p><input checked="" type="checkbox"/> Tuple</p> <p>Both a & b</p> <p>None of the above</p>

26. Multiple Choice: What output will be produced by the c...

Points: 2

Question

What output will be produced by the code below?

```
func fizzbuzz(number: Int) -> String {  
    switch (number % 3 == 0, number % 5 == 0) {  
        case (true, false):  
            return "Fizz"  
        case (false, true):  
            return "Buzz"  
        case (true, true):  
            return "FizzBuzz"  
        default:  
            return String(number)  
    }  
}  
  
print(fizzbuzz(number: 15))
```

Answer

15

 Fizzbuzz

0

None of these

27. Multiple Choice: Which of the following declares a mut...

Points: 2

Question	Which of the following declares a mutable array in swift.
Answer	<p>Let X =[Int]()</p> <hr/> <p>Var X=[Int]</p> <hr/> <p><input checked="" type="checkbox"/> Var X=[Int]()</p> <hr/> <p>Let X=[Int]</p>

28. Multiple Choice: var myStr: String = "0" myStr = "shi...

Points: 2

Question	<pre>var myStr: String = "0" myStr = "shiny"</pre> <p>When this code is executed, what is the value of myStr?</p>
Answer	<p><input checked="" type="checkbox"/> shiny</p> <hr/> <p>1</p> <hr/> <p>0</p>

None of these

29. Multiple Choice: 10: Spot the error func takeExer...

Points: 2

Question

Spot the error

```
func takeExercise(count: Int, type: String) -> String {  
    var returnValue: String = ""  
    for _ in 0 ..< count {  
        returnValue += "I'm doing a \(type)\n"  
    }  
    if count < 10 {  
        returnValue += "That was easy!"  
    } else if count < 30 {  
        returnValue += "That was challenging!"  
    } else {  
        returnValue += "Phew - I need a break!"  
    }  
    retrun returnValue  
}  
print(takeExercise(count: 48, type: "squat"))
```

Answer

Line 11

Line 12

Line 9

None

30. Multiple Choice: 1: Spot the error func printNameTags(co...

Points: **2**

Question

Spot the error

```
func printNameTags(copies: Int, name: String) -> String {  
    str: String = ""  
    for _ in 1 ... copies {  
        str += "\n(name)\n"  
    }  
    return str  
}  
print(printNameTags(copies: 22, name: "Paul Hudson"))
```

Answer

Line 1

Line 3

Line 5

None

31. Multiple Choice: 2: Spot the error func showError(erro...

Points: **2**

Question

Spot the error

```
func showError(error: Int) -> String {  
    var returnValue: String = "ERROR \ \(error)"  
    returnValue += "\nPlease try again\n"  
    return returnValue  
}  
print(showError(error: 47))
```

Answer

Line 4

 Line 3

Line 2

None

 32. Multiple Choice: 3: Spot the error func checkCost(number...Points: **2****Question**

Spot the error

```
func checkCost(number: Int) {  
    var output: String = "Result for \(number) - "  
    if number < 10 {  
        output += "that seems low"  
    } else if number < 20 {  
        output += "that's about right"  
    } else {  
        output += "that seems high"  
    }  
    return output  
}  
print(checkCost(number: 9))
```

Answer

Line 10

Line 11

Line 6

None

33. Multiple Choice: 4: Spot the error func printRes...

Points: **2**

Question

Spot the error

```
func printResumes(count: Int, name: String) -> String {  
    var returnValue: String = ""  
    for _ in 1 ... count {  
        returnValue += "\(name)\n"  
    }  
    return returnValue  
}  
print(printResumes(count: "97", name: "Paul Hudson"))
```

Answer

Line 1

Line 3

Line 8

None

34. Multiple Choice: 5: Spot the error func verifyUs...

Points: **2**

Question

Spot the error

```
func verifyUser(id: Int) -> String {  
    var returnValue: String = "Found "  
    switch id {  
    case 0:  
        returnValue += "TwoStraws"  
    case 1:  
        returnValue += "Taylor"  
    default:  
        returnValue += "nothing for ID \(id)"  
    }  
    retrun returnValue  
}  
print(verifyUser(id: 10))
```

Answer

Line 6

Line 8

Line 9

Line 11

35. Multiple Choice: 6: Spot the error func checkPre...

Points: **2**

Question

Spot the error

```
func checkPressure(value: Int) -> string {  
    var output: String = "Result for \(value) - "  
    if value < 10 {  
        output += "that seems low"  
    } else if value < 20 {  
        output += "that's about right"  
    } else {  
        output += "that seems high"  
    }  
    return output  
}  
print(checkPressure(value: 30))
```

Answer

Line 7

Line 9

Line 4

 None 36. Multiple Choice: 7: Spot the error func writeRev...Points: **2****Question**

Spot the error

```
func writeReview(score: Int) -> String {    var
returnValue: String = "SCORE \(score)\n"
switch score {    case 0...20:
        returnValue += "Terrible"
    case 21...40:
        returnValue += "Poor"
    case 41...60:
        returnValue += "Average"
    case 61...80:
        returnValue += "Good"
    default:
        returnValue += "Excellent"
    }
    retrun returnValue
}
print(writeReview(score: 37))
```

Answer

Line 11

Line 12

Line 13

None

37. Multiple Choice: 8: Spot the error func checkHei...

Points: **2**

Question

Spot the error

```
func checkHeight(value: Int) -> String {  
    var returnValue: String = "Result for \ \(value) - "  
    if value < 10 {  
        returnValue += "that seems low"  
    } else if value < 20 {  
        returnValue += "that's about right"  
    } else {  
        returnValue += "that seems high"  
    }  
    return returnValue  
}  
print(checkHeight(value: "25"))
```

Answer

Line 6

Line 8

Line 9

None

38. Multiple Choice: 9: Spot the error func shareWin...

Points: 2

Question

Spot the error

```
func shareWinnings(people: Int, fairly: Bool) -> String {  
    var str: String = "We're going to split this...\n"  
    if fairly {  
        str += "Everyone gets 1/(people)"  
    } else  
        str += "I get half because I deserve it.\n"  
        str += "Everyone else can split the remainder."  
    }  
    return str  
}  
print(shareWinnings(people: 7, fairly: true))
```

Answer

Line 9

Line 10

 Line 5

Line 6

39. Multiple Choice: How many lines will be printed by the...

Points: 2

Question

How many lines will be printed by the code below?

```
import Foundation
```

```
let data: [Any?] = ["Bill", nil, 69, "Ted"]
```

```
for datum in data where !(datum is Hashable) {
```

```
    print(datum)
```

Answer

 2 0 3 None of these 40. Multiple Choice: Which of these is not a val...

Points: 2

Question

Which of these is *not* a valid Swift compilation condition?

Answer

 #if arch(...) #if canImport(...) #if compiler(...)

✔ #if platform(...)

41. Multiple Choice: When this code is executed, what will...

Points: 2

Question

When this code is executed, what will example2 be set to?

```
var names = [String]()  
names.append("Amy")  
let example1 = names.removeLast()  
let example2 = names.removeLast()
```

Answer

"Amy"

Nothing will be output

✔ This code will compile but crash

This code will not compile

42. Multiple Choice: In the code below, what data type wil...

Points: 2

Question

In the code below, what data type will be assigned to result?

```
let result = UInt8.max.addingReportingOverflow(1)
```

Answer

✔ UInt

UInt8

Tuple

This code will compile but crash

43. Multiple Choice: What will result be set to after this...

Points: 2

Question

What will result be set to after this code runs?

```
let result = Result { try String(contentsOfFile: pathToFileThatDoesNotExist) }
```

Answer

.success(String)

.failure(Error)

This code will compile but crash at runtime

This code will throw an error

44. Multiple Choice: Given the code below, what data type ...

Points: 2

Question

Given the code below, what data type will be assigned to test?

```
enum Planet: Int {  
    case Mercury = 1  
    case Venus  
    case Earth  
    case Mars  
}
```

```
let test = Planet(rawValue: 3)
```

Answer

Int

Int?

Planet

Planet?

45. Multiple Choice: When this code is executed, what will...

Points: **2**

Question

When this code is executed, what will the name value contain?

```
let i = 11
```

```
let j = 20
```

```
let name = 9...11 ~= i ? j % 2 == 1 ? "Larry" : "Laura" : "Libby"
```

Answer

"Larry"

"Laura"

"Libby"

This code will compile but crash

46. Multiple Choice: When this code is executed, what is t...

Points: **2**

Question

When this code is executed, what is the value of the swift string?

```
import Foundation
let swift = "Hello"
let ns = NSString(swift)
```

Answer

Hello

Nil

The code will not compile

The code will compile but crash at runtime.

47. Multiple Choice: In the code below, what is the data t...

Points: 2

Question

In the code below, what is the data type used for result?

```
func doStuff() {  
    print("Stuff has been done")  
}  
let result = doStuff()
```

Answer

Int

Int8

UInt

None of these

48. Multiple Choice: 12: What is the type of x? let d = ["joh...

Points: 2

Question

What is the type of x?

```
let d = ["john": 23, "james": 24, "vincent": 34, "louis": 29]
```

```
let x = d.sort{ $0.1 < $1.1 }.map{ $0.0 }
```

Answer

Int

Float

Constant

String

49. Multiple Choice: 18: Given that we have defined myChar lik...

Points: **2**

Question

Given that we have defined myChar like so :

```
let myChar: Character = "b"
```

Which code segment can be considered a complete Switch statement and will run without any error?

Answer

`switch myChar { case "a","A": println("The letter A") case "b","B": println("The letter A") }`

`switch myChar { case "a": println("The letter A") }`

`switch myChar { case "a": case "A": println("The letter A") default: println("Not the letter A") }`

`switch myChar { case "a","A": println("The letter A") default: println("Not the letter A") }`

50. Multiple Choice: What output will be produced by the c...

Points: **2**

Question

What output will be produced by the code below?

```
let userLoggedIn: Bool? = false

if !userLoggedIn {
    print("Message one")
} else {
    print("Message two")
}
```

Answer

Message One

Message Two

Message 1

Message 2

51. Multiple Choice: Which of these is the correct way to ...

Points: **2**

Question

Which of these is the correct way to create a raw string in Swift?

Answer

"""Hello, World!"""

@"Hello, World!"

#"Hello, World!"#

Hello, World!

52. Multiple Choice: When this code is executed, how many ...

Points: 2

Question

When this code is executed, how many items will the names array contain?

```
var names = [String]()
names.reserveCapacity(2)
names.append("Amy")
names.append("Rory")
names.append("Clara")
```

Answer

2

1

This code will compile but crash

None of the above

53. Multiple Choice: What output will be produced by the c...

Points: 2

Question

What output will be produced by the code below?

```
import Foundation  
  
let crew = NSMutableDictionary()  
  
crew.setValue("Kryten", forKey: "Mechanoid")  
  
print(crew.count)
```

Answer



1

Nothing will be output

This code will compile but crash

This code will not compile

54. Multiple Choice: What output will be produced by the c...

Points: **2**

Question

What output will be produced by the code below?

```
enum MyError: Error {  
    case broken  
    case busted  
    case badgered  
}  
  
func willThrowAnError() {  
    throw MyError.busted  
}  
  
do {  
    try willThrowAnError()  
} catch MyError.busted {  
    print("Code was busted!")  
} catch {  
    print("Code just didn't work")  
}
```

Answer

"Code was busted!"

Nothing will be output

This code will compile but crash

This code will not compile

Points: **2**

55. Multiple Choice: When this code is executed, what will...

Question When this code is executed, what will it print?

```
enum Direction: CaselIterable {  
    case north, south, east, west  
}  
  
print(Direction.allCases.count)
```

Answer [.north, .south, .east, .west]

5

4

This code will not compile

 56. Multiple Choice: Which Swift compiler directive will f...

Points: **2**

Question Which Swift compiler directive will force the compiler to issue an error?

Answer !error

\$error

ERROR

 #error

57. Multiple Choice: What output will be produced by the c...

Points: 2

Question

What output will be produced by the code below?

```
import Foundation
```

```
let number = 16.0
```

```
print("\(number) squared is \(number * number), and its square root is \(sqrt(number))")
```

Answer

"16 squared is 16 * 16, and its square root is sqrt(16)"

"16 squared is 256, and its square root is 4"

"16.0 squared is 256.0, and its square root is 4.0"

This code will compile but crash

58. Multiple Choice: What output will be produced by the c...

Points: 2

Question

What output will be produced by the code below?

```
let oneMillion = 1_000_000
```

```
let oneThousand = oneMillion / 0_1_0_0_0
```

```
print(oneThousand)
```

Answer	1000000

	1_0_0_0

	This code will compile but crash

	<input checked="" type="checkbox"/> None of the above

59. Multiple Choice: You are using a method named willThro...

Points: **2**

Question	You are using a method named willThrowAnError(), and it is marked using throws because it will always throw the error "Forbidden". Given this context, what output will be produced by the code below? <pre>do { try willThrowAnError() } catch { print("The error message was: \(error)")</pre>
Answer	This code will compile but crash

	This code will not compile

	Nothing will be output

	<input checked="" type="checkbox"/> None of the above

60. Multiple Choice: What output will be produced by the c...

Points: 2

Question

What output will be produced by the code below?

```
let names = ["Amy", "Rory"]
for name in names {
  name = name.uppercased()
  print("HELLO, \(name)!")
}
```

Answer

"HELLO, AMY!"

"HELLO, AMY!", "HELLO, RORY!"

This code will compile but crash

This code will not compile

Select: [All](#) [None](#) Select by Type: Points