

COMP 3717 Midterm Practise

Multiple Choice

1. Which of the following defines an interface in Kotlin?
 - a) `interface MyInterface {}`
 - b) `class MyInterface {}`
 - c) `abstract MyInterface {}`
 - d) `object MyInterface {}`
2. How do you make a property observable?
 - a) `var name = observable()`
 - b) `var name by Delegates.observable(initial) { prop, old, new -> ... }`
 - c) `val name by lazy`
 - d) `var name = Delegates.lazy {}`
3. Which of the following is true about a `Unit` ?
 - a) Cannot be returned
 - b) Represents no meaningful value, similar to void
 - c) Always null
 - d) Used for numbers
4. What is the difference between `==` and `===` in Kotlin strings?
 - a) Equals vs assignment
 - b) Mutable vs immutable
 - c) String vs Char
 - d) Structural vs Referential equality

5. Which scope function lets you work with a nullable object and returns the result of the lambda?

- a) `let`
- b) `apply`
- c) `also`
- d) `run`

6. What will be the type of `val x = 42` if not explicitly declared?

- a) `Int`
- b) `Double`
- c) `Any`
- d) `String`

7. Which function is called first in the Android Activity lifecycle?

- a) `onStart()`
- b) `onCreate()`
- c) `onResume()`
- d) `onPause()`

8. How can you make a class extendable?

- a) Use `abstract`
- b) Use `sealed`
- c) Use `final`
- d) Use `open`

9. Which of the following correctly defines a `Triple` and deconstructs it?

- a)

```
val triple = Triple(1,2,3);  
val a,b,c = triple
```
- b)

```
Triple(1,2,3) -> a,b,c
```
- c)

```
val triple = Triple(1,2,3);  
triple.deconstruct(a,b,c)
```
- d)

```
val triple = Triple(1,2,3);  
val (a,b,c) = triple
```

10. Which of the following is true about `fillMaxSize()` in Compose?

- a) Fills width only
- b) Fills height only
- c) Does nothing
- d) Fills both width and height

See next page for answers

Answers:

1. Which of the following defines an interface in Kotlin?

- e) `interface MyInterface {}`
- f) `class MyInterface {}`
- g) `abstract MyInterface {}`
- h) `object MyInterface {}`

2. How do you make a property observable?

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- e) Equals vs assignment
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- e) Use `abstract`
- f) Use `sealed`
- g) Use `final`
- h) `Use open`

9. Which of the following correctly defines a `Triple` and deconstructs it?

- e) `val triple = Triple(1,2,3);`
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- f) `Triple(1,2,3) -> a,b,c`
- g) `val triple = Triple(1,2,3);`
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- h) `val triple = Triple(1,2,3);`
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