## Kotlin Quiz

Kindly attempt this questions before our session on 22nd of June. We shall review it together.

* Indicates required question			
1.	Email *		
2.	What file is the entry point for an Android application? *	1 point	
	Mark only one oval.  MainActivity.kt  AndroidManifest.xml  build.gradle.kts  Main.kt		
3.	What is the use of the res directory in an Android project? *  Mark only one oval.  To store the source code  To store resource files like layouts, strings, and images  To store third-party libraries  To store configuration files	1 point	

4.	What is the purpose of Gradle in an Android project? *	1 point
	Mark only one oval.	
	To manage UI components	
	To handle HTTP requests	
	To automate the build process	
	To manage user authentication	
5.	What is the purpose of the build.gradle file in an Android project? *	1 point
	Mark only one oval.	
	It defines the project-wide settings and configuration	
	It contains the Kotlin source code for the project	
	It manages user interface components	
	It handles database transactions	
6.	How does Android Studio manage dependencies in an Android project, and where are these configurations typically found?	* 1 point
	Mark only one oval.	
	Dependencies are managed through the AndroidManifest.xml file	
	Dependencies are declared in the build.gradle files	
	Dependencies are handled by the Android SDK manager	
	Dependencies are controlled through the proguard-rules.pro file	

	7. How does Android Studio support Unit Testing and UI Testing for Android applications?					
		Mark only one oval.				
		Android Studio includes built-in frameworks and tools like Espresso for UI testing and JUnit for unit testing				
		Android Studio uses Firebase for unit testing				
		Android Studio integrates with third-party testing tools only				
		Android Studio manages database transactions for testing purposes				
	8.	What is the advantage of using an Android emulator for app development? * 1 point				
Mark only one oval.						
		Emulators provide faster performance compared to physical devices				
		Emulators allow developers to test apps on a wide range of device configurations				
		Emulators have longer battery life				
		Emulators are more reliable for network operations				
	9.	How does Android Studio facilitate testing on physical devices during app * 1 point development?				
		Mark only one oval.				
		It automatically connects to any physical device within the vicinity				
		It provides drivers for various device manufacturers				
		It uses Bluetooth for connecting to physical devices				
		It enables USB debugging and deployment directly to connected devices				

10.	What are some limitations of using an Android emulator compared to a * 1 point physical device for testing?				
	Mark only one oval.				
	Emulators do not support network operations				
	Emulators cannot simulate real-world performance accurately				
	Emulators do not support UI components				
	Emulators have limited storage capacity				
11.	Explain the process of setting up and running an Android application on a * 1 point physical device from Android Studio.				
	Mark only one oval.				
	Connect the device via USB, enable USB debugging in developer settings, select the device from the Run/Debug configurations, and click Run				
	Install drivers from the Android SDK manager, connect via Wi-Fi, and deploy the app using the Quick Deploy feature				
	Pair the device with Android Studio using Bluetooth, configure app settings, and use the Remote Control feature to deploy				
	None of the above				
12.	What is the purpose of debugging in Android development? * 1 point				
	Mark only one oval.				
	To optimize app performance				
	To test app functionality on physical devices				
	To identify and fix errors or bugs in the code				
	To manage app permissions				

13.	3. Explain the role of breakpoints in debugging with Android Studio. *		
	Mark only one oval.		
	Breakpoints are used to terminate the app execution		
	Breakpoints are markers set in the code to pause execution and inspect variables and state		
	Breakpoints handle network requests		
	Breakpoints manage user authentication		
14.	What is Logcat in Android Studio, and how is it used during debugging? *	1 point	
	Mark only one oval.		
	Logcat displays real-time system log messages from the device or emulator helping developers monitor app behavior and diagnose issues	r,	
	Logcat manages app resources		
	Logcat optimizes UI responsiveness		
	Logcat handles database transactions		
15.	Explain what Coroutines are and their use in Android. *	1 point	
	Mark only one oval.		
	They are methods for drawing UI components		
	They are a concurrency design pattern used to simplify code that executes asynchronously		
	They are tools for managing app resources		
	They are techniques for handling multiple users		

est
1 point
1 point

19.	Which of the following is a feature of Kotlin that allows you to write expressive and concise code by removing boilerplate code?		
	Mark only one oval.		
	O Data classes		
	Abstract classes		
	Static classes		
	Utility classes		
20.	Write a Kotlin function that demonstrates null safety using the safe call operator and the Elvis operator.	* 1 point	
21.	Write a Kotlin function that uses the when expression to return a grade based on a score input fun getGrade(score: Int): String {	* 1 point	
22.	Create a higher-order function in Kotlin that takes a function as a parameter and applies it to the number 10.	<b>*</b> 1 point	
23.	Kotlin supports both functional and object-oriented programming paradigms.	<b>*</b> 1 point	
	Mark only one oval.		
	True		
	False		

Mark only one oval.	
True	
False	
25. Which annotation is used to denote a test method in JUnit 5? *	1 point
Mark only one oval.	
@TestMethod	
@Test	
@TestCase	
@JUnitTest	
26. Write a simple JUnit 5 test function in Kotlin that checks if the sum of two numbers is correct.	* 0 points
27. Write a Kotlin test using assertFailsWith to check that a function throws	* 1 point
an IllegalArgumentException when given an invalid argument.	

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