COMP 3717 Final Practise

Multiple Choice

1. What does the **R** class in an Android project primarily contain?

   a) Runtime application configurations and metadata.

   b) Statically-typed resource identifiers for all resources in the res directory.

   c) A list of all Composable functions defined in the project.

   d) The result of the latest recomposition cycle.

2. What is the purpose of the remember function in Jetpack Compose?

   a) To trigger an immediate recomposition of a Composable.

   b) To store a value in the Composition so it survives recompositions.

   c) To load state from an Android Bundle.

   d) To create a non-mutable reference to a Composable.

3. When a Composable reads a value from a `MutableState` object, what is triggered when that value is later changed?

   a) Only the change is logged, with no UI update.

   b) A full restart of the entire Activity.

   c) Recomposition of all Composables that read the state.

   d) A background thread to recalculate the view.

4. Which method of the `NavController` is used to programmatically move the user to a different screen (destination)?

   a) `startDestination()`

   b) `navigate()`

   c) `open()`

   d) `push()`

5. The actions parameter in a **TopAppBar** Composable is typically used to place which type of elements?

   a) The screen title text.

   b) The navigation icon (e.g., a back button).

   c) The screen's main content body.

   d) IconButtons for common actions.

6. In a layered architecture, which type of logic involves showing a dropdown, changing a screen's color, or adjusting the visibility of an element?

   a) Business Logic

   b) Data Logic

   c) UI Logic

   d) Domain Logic

7. What is the main role of the DAO (Data Access Object) in a Room database?

   a) Managing database migrations and versioning.

   b) Providing an API for interacting with the database tables through functions.

   c) Defining the database schema and foreign keys.

   d) Creating the singleton instance of the database.

8. Which of the following best describes a Coroutine?

   a) A dedicated operating system thread with its own stack.

   b) A heavyweight background process managed by the OS scheduler.

   c) A lightweight thread that does not map directly to an OS thread.

   d) A simple callback function for asynchronous operations.

9. Ktor is a popular Kotlin framework often used in Android development for what purpose?

   a) Database transaction management.

   b) Making HTTP requests and building networked applications.

   c) Defining dependency injection modules.

   d) None of the above

10. Which Composable is used to safely call suspend functions from within the Compose Composition?

   a) `SideEffect`

   b) `DisposableEffect`

   c) `LaunchedEffect`

   d) `CallbackEffect`

See next page for answers

Answers:

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