



DM-003-2036001 Seat No. _____

B. C. A. (Sem. VI) (CBCS) (W.E.F. 2019) Examination

March – 2022

**CS - 31 : Mobile Application Development In
Android Using Kotlin**

Faculty Code : 003

Subject Code : 2036001

Time : $2\frac{1}{2}$ Hours]

[Total Marks : 70

- 1 (A) Answer the following : 4
- (1) JVM stands for _____
 - (2) _____ is the file extension for source file in Kotlin
 - (3) Entry point to a Kotlin program is the _____ function
 - (4) Mutable variables are declared using _____ keyword
- (B) Answer any **one** in brief : 2
- (1) Explain Expression & Statement in Kotlin
 - (2) Explain Array in Kotlin
- (C) Answer any **one** in detail : 3
- (1) Explain, how to define function in Kotlin (Syntax & example)
 - (2) Explain var arg function with example in Kotlin
- (D) Answer any **one** : 5
- (1) Write a note on abstract classes and interfaces in Kotlin.
 - (2) Write a note on Collections.

- 2 (A) Answer the following : 4
- (1) AVD stands for _____
 - (2) DVM stands for _____
 - (3) OHA stands for _____
 - (4) SDK stands for _____
- (B) Answer any **one** in brief : 2
- (1) Usage of Permissions in android application
 - (2) Usage of Intent filter in android application
- (C) Answer any **one** in detail : 3
- (1) Explain the Android Manifest File
 - (2) Explain the types of Android resources
- (D) Answer any **one** : 5
- (1) Write a note on Activity life cycle with example
 - (2) Write a note on Android Architecture
- 3 (A) Answer the following : 4
- (1) _____ widget is used to display image in the android
 - (2) _____ file is used to store string resources in android project
 - (3) _____ is the default layout of an empty activity in Android Studio
 - (4) _____ is a view similar to the dropdown list
- (B) Answer any **one** in brief : 2
- (1) Explain Linear Layout
 - (2) Explain Relative Layout
- (C) Answer any **one** in detail : 3
- (1) Text View v/s Edit Text
 - (2) Image View V/s Image Button

- (D) Answer any **one** : 5
- (1) Develop an android app to start any three inbuilt application
 - (2) Develop an android app to pass data to another activity
- 4 (A) Answer the following : 4
- (1) API stands for _____
 - (2) _____ interface is used to write (edit) data in shared preference
 - (3) _____ database is used in mobile devices to manage data
 - (4) _____ contains the result set of a query made against a database table
- (B) Answer any **one** in brief : 2
- (1) Explain Preference Editor
 - (2) Explain External storage
- (C) Answer any **one** in detail : 3
- (1) Internal V/s External Storage
 - (2) Public files V/s Private files
- (D) Answer any **one** : 5
- (1) Develop an android app to define shared preferences
 - (2) Develop an android app to perform CRUD operation with SQLite database
- 5 (A) Answer the following : 4
- (1) _____ can perform long-running operations in the background
 - (2) LBS stands for _____
 - (3) JSON stands for _____
 - (4) GPS stands for _____

- (B) Answer any **one** in brief : **2**
- (1) Explain Android networking API
 - (2) Explain Android telephony API
- (C) Answer any **one** in detail : **3**
- (1) Explain the usage of Location Manger
 - (2) Activity V/s Service
- (D) Answer any **one** : **5**
- (1) Write a note on GeoCoderclass.
 - (2) Develop an android app to retrieve current Location.
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