



**DM-003-2046001**

Seat No. \_\_\_\_\_

**B. Sc. (I.T.) (Sem. VI) (CBCS) (W.E.F. 2019) Examination**

**March – 2022**

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

**Faculty Code : 003**

**Subject Code : 2046001**

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

[Total Marks : 70

- 1 (A) Attempt the following : 4
- (1) What is Kotlin?
  - (2) What is Map in kotlin?
  - (3) Give list of visibility modifiers in kotlin
  - (4) What is use of this keyword?
- (B) Attempt any **one** : 2
- (1) Write a code to display "Hello World" in Kotlin.
  - (2) Explain any one Relational operators.
- (C) Attempt any **one** : 3
- (1) Explain while statement in kotlin
  - (2) Explain user define function in kotlin with example.
- (D) Attempt any **one** : 5
- (1) Explain inheritance, abstract and interface with example.
  - (2) Explain loop control in kotlin in details
- 2 (A) Attempt the following : 4
- (1) List types of Intents?
  - (2) Give full form of SDK.
  - (3) Give full form of OHA
  - (4) Give full form of DVM

- (B) Attempt any **one** : **2**  
 (1) What is Context?  
 (2) What is use of permission in manifest file?
- (C) Attempt any **one** : **3**  
 (1) Explain resource directory  
 (2) Explain intent with example
- (D) Attempt any **one** : **5**  
 (1) Explain Activity life cycle with diagram.  
 (2) Explain Manifest file in detail.
- 3** (A) Attempt the following : **4**  
 (1) Which components creates Text View widget in your UI?  
 (2) If you want to require input data from user then which components is used?  
 (3) What is GridView?  
 (4) What is Button?
- (B) Attempt any **one** : **2**  
 (1) What is Dialog?  
 (2) What is Relative Layout?
- (C) Attempt any **one** : **3**  
 (1) Explain Linear Layout.  
 (2) Explain Twined animation.
- (D) Attempt any **one** : **5**  
 (1) Explain List view with example.  
 (2) Explain frame by frame animation.
- 4** (A) Attempt the following : **4**  
 (1) To write shared preferences file create a SharedPreferences Editor by calling.....method in your Shared Preferences.  
 (2) To write to the external storage you must request the permission in your manifest file.

- (3) To read from a database use the....method.
- (4) Small collection of key-values that you'd like to save you can use the.....APIs.
- (B) Attempt any **one** : **2**
- (1) What is content provider?
- (2) Explain Shared Preference.
- (C) Attempt any **one** : **3**
- (1) How to share data between application?
- (2) How to retrieve record in Shared Preference?
- (D) Attempt any **one** : **5**
- (1) Write a code to perform update and delete operation using Sqlite database.
- (2) Explain Storage APIs.
- 5** (A) Attempt the following : **4**
- (1) Give full form of JSON.
- (2) Give full form of LBS.
- (3) What is WebView?
- (4) Give full form of GPS.
- (B) Attempt any **one** : **2**
- (1) What is Geocoding location?
- (2) Explain Web API
- (C) Attempt any **one** : **3**
- (1) Explain Mapping Location.
- (2) Write step to deploy android application in play store
- (D) Attempt any **one** : **5**
- (1) Explain notification with example.
- (2) Explain Json Parsing m brief.
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