

**CERTIFICATE IN MOBILE
APPLICATION DEVELOPMENT
(CMAD)**

Term-End Examination

June, 2026

BCS-093 : INTROUDUCION TO ANDROID

Time : 3 Hours

Maximum Marks : 75

Note : (i) *Question no. 1 is compulsory.*

(ii) *Answer any **three** questions from the rest.*

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1. (a) Explain the android architecture in detail with a diagram. 10
 - (b) Discuss the importance and role of Android Runtime environment. 10
 - (c) Explain how security issues can be handled in Android Applications. 10
 2. (a) What is the activity lifecycle in Android ? Explain with a diagram. 5

- (b) Describe the Android development environment and the tools required for Android apps development. 10
- 3. (a) Differentiate between static and dynamic testing of Android applications. 5
- (b) Explain the process of testing of Android application using an emulator and physical devices. 10
- 4. (a) Discuss three challenges and two best practices in Android App performance optimization. 5
- (b) Explain the process of publishing an Android app to the Play store. 10
- 5. (a) Explain the various storage options available in Android . Explain their use cases. 5
- (b) Discuss the process of integrating multimedia in android applications. 10

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