

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

Term-End Examination

December, 2025

BCS-093 : INTRODUCTION TO ANDROID

Time : 3 Hours

Maximum Marks : 75

Note : *Question No. 1 is compulsory. Answer
any **three** questions from the rest.*

1. (a) Explain any *ten* differences between
IOS and Android Operating System. 10
- (b) What is activity cycle ? Explain the
loops and path of an activity that might
take place between states. 10

- (c) Explain the *app* components of Activities and Services. Also explain any *two* methods of each component. 10
2. (a) Discuss briefly about the fragments and intents. 7
- (b) Explain Views and ViewGroups in android applications. 8
3. (a) Discuss the difference between basic views and picker views. 7
- (b) What is Content provider and Broadcast receiver ? Briefly explain each. 8
4. (a) Explain the role of gradle in Android development. 5
- (b) What methods are called when activity transitions are from the foreground to the background ? Explain briefly. 10

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5. (a) Explain the concept of API levels and their importance in Android development. 5
- (b) Explain the use of XML in defining layouts for Android applications. 5
- (c) Describe the process of setting up an Android emulator. 5

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