

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

Term-End Examination

June, 2023

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 *two* layers of Android Architecture. 10
- (b) Distinguish between Native and Hybrid Mobile Apps. 10
- (c) What do you mean by Activity Stack ? Explain it. 10
2. (a) List any *five* tools that are provided by Android Studio. 5

- (b) Explain the following components of a Mobile Apps : 10
- (i) Activities
 - (ii) Services
3. (a) What is Android Manifest ? Explain it. 7
- (b) What is the latest version of Android ? What are its features ? 8
4. (a) List any *five* common controls offered by Android that can be used by Mobile Apps. 5
- (b) What is a Layout Editor ? Explain its features. 10
5. (a) Explain the process of integrating Audio into Android Application Development. 10
- (b) Explain any *two* options that are provided by Android to save persistent data. 5