BCS-093

CERTIFICATE IN MOBILE APPLICATION DEVELOPMENT (CMAD)

Term-End Examination

December, 2022

BCS-093 : INTRODUCTION TO ANDROID

Time : 3 Hours   *Maximum Marks : 75*

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

1. (a) Explain any *five* features of Android.   10

   (b) Explain the following :   5+5

      (i) Hardware Abstraction Layer

      (ii) Native Libraries

   (c) Explain any *five* call back methods of activity lifecycle.   10

2. (a) List and explain any *five* debugging tools for Android Apps.   10

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(b) List the names of any *five* Android platform versions.   5

3. (a) Explain the following components of a Mobile App :   5+5

    (i) Content Providers

    (ii) Broadcast Receivers

  (b) List any *five* functions of an AndroidManifest.xml file.   5

4. (a) List various steps in building and running on Android Mobile App.   10

  (b) What is meant by "Android Compatible" ? 5

5. (a) Write a short note on "Android Monitor." 10

  (b) What are the techniques that can be applied while designing and implementing an Android App to make it memory efficient ?   5