



B.C.A. (Semester - V) Examination, October 2017
COMPUTER SCIENCE
Elective I : Android Programming

Duration : 2 Hours

Max. Marks : 50

- Instructions :** 1) *All questions are compulsory.*
2) *Figures to the right indicate full marks.*
3) *Draw diagrams wherever necessary.*

1. A) Fill in the blanks : (5×1=5)

- i) .apk stands for _____ Package.
- ii) SQLite is build-in _____ that is shipped with Android.
- iii) The Android _____ contains a debugger, libraries, an emulator, documentation, sample code and tutorials.
- iv) DialogFragment is a part of the _____ class.
- v) To share the data across all applications, _____ should be used.

B) State whether the following statements are **True** or **False** : (5×1 =5)

- i) A typical Android application is a collection of Activity, services, broadcast receivers and content providers.
- ii) An Broadcast Receiver is the one where in the stop state, does nothing.
- iii) SMS is the permissions you need to declare in your AndroidManifest.xml file for an HTTP connection.
- iv) AddAlert() is used for monitoring a internet.
- v) Service is an application in Android that runs in the background without needing to interact with the user.

2. Answer the following :

- A) Write two points of difference between the Internal Storage and External Storage. **2**
- B) Discuss the various content providers found in Android. **3**
- C) Write a short note on the Architecture of Android. **5**

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- 3. Answer the following :
 - A) Why is an IntentService class used for ? 2
 - B) What are the reasons a map may not display after loading on the Android application ? 3
 - C) Explain the three methods of deploying apk files onto Android devices. 5
- 4. Answer the following :
 - A) What is the difference between Options Menu and Context Menu in Android ? 2
 - B) Distinguish between ListView and SpinnerView in Android. 3
 - C) Write a short note on how to send and receive SMS through Android. 5
- 5. Answer the following :
 - A) List any four basic views used in Android. 2
 - B) Explain in brief the Gallery and Image View views. 3
 - C) Discuss the ways of Displaying Maps in Android. 5