



B.C.A. (Semester – V) Examination, October 2016
COMPUTER SCIENCE (Elective – I)
Android Programming

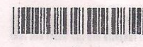
Duration : 2 Hours

Max. Marks : 50

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

1. A) Answer the following in brief : (5×1=5)
- i) How do you specify the minimum version of Android required for your application ?
 - ii) Which method is invoked whenever there is a change in display orientation ?
 - iii) How is a menu item identified ?
 - iv) Name the relational database system used by Android.
 - v) Write the string format for querying a content provider.
- B) Give a point of difference between the following : (5×1=5)
- i) RelativeLayout and TableLayout.
 - ii) ListView and SpinnerView.
 - iii) Options menu and Context menu.
 - iv) Dp and Sp.
 - v) AnalogClock and DigitalClock views.
2. Answer the following :
- A) Why is it important to put long-running code in a service on a separate thread ? 2
 - B) Write a note on "Choosing the Best Storage Option". 3
 - C) Write a note on Architecture of Android. 5

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3. Answer the following :
- A) What is AutoCompleteTextView view ? 2
 - B) Write the code snippet for a callback when a view is clicked. 3
 - C) Explain the various events in activity life cycle. 5
4. Answer the following :
- A) Name the two methods you need to override when implementing an options menu in your activity. 2
 - B) How to deploy APK files through a web server ? 3
 - C) List and describe the common attributes of View and ViewGroup. 5
5. Answer the following :
- A) What are the pre-requisites before being able to use google maps in your project ? 2
 - B) State and describe any three Content Providers in Android. 3
 - C) Explain the SmsManager class method for sending SMS message programmatically. State any two drawbacks of using sms through Android applications. 5