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**MCA DEGREE V SEMESTER EXAMINATION NOVEMBER 2015**

**2503/2504 ANDROID APPLICATION PROGRAMMING**

*(New Scheme-Regular and Supplementary)*

Time: 3 Hours

Maximum Marks: 50

**PART A**  
(Answer *ALL* questions)

(15 × 2 = 30)

- I. (a) Draw the android activity life cycle model.  
(b) List and explain the use of different folders and files of an APK file.  
(c) Describe the concept of FRAGMENTS in Android development.
- II. (a) List the different layout supported by Android View Group and describe any one view Group with an example.  
(b) Explain any 4 unit of measurement to specify the size of element in Android UI.  
(c) How to provide option for auto Complete in Android Application.
- III. (a) Explain the guidelines to use appropriate data storage in an applications.  
(b) Describe the role of content providers in Android Development.  
(c) Illustrate the use of Preference Activity Class.
- IV. (a) List and explain the five arguments of the send Text Message () method,  
(b) How to prevent the messaging application from receiving a message.  
(c) Explain the different methods for retrieving phone location from an application.
- V. (a) Explain the requirement to establish connection to www using http protocol from an android application.  
(b) Describe the role of JSON Services in android development.  
(c) What is the purpose of the Intent Service Class?

**PART B**

(5 × 4 = 20)

- VI. Describe Architecture of Android Operating System.
- OR**
- VII. Illustrate the linking activities using intents with an example.
- VIII. Describe the management of an application's UI with respect to the changes in screen orientation with an example.
- OR**
- IX. Illustrate Handling View Events in Android with an example.
- X. Illustrate how to establish database connectivity to an android application.
- OR**
- XI. Write an Android Application to change the ring tone of a phone.
- XII. Describe the working of location-based services in android.
- OR**
- XIII. Design an android application to send E-Mail.
- XIV. Describe the socket programming in android with an example.
- OR**
- XV. Illustrate the use of threading in android development with an example.