This question paper contains 3 printed pages]

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S. No. of Question Paper : **2109**

Unique Paper Code : **32343305**   **GC-3**

Name of the Paper : **SEC-1 Android Programming**

Name of the Course : **B.Sc. (Hons.) Computer Science (CBCS) Skill Enhancement Course**

Semester : **III**

Duration : **2 Hours**   Maximum Marks : **25**

(Write your Roll No. on the top immediately on receipt of this question paper.)

Section A is compulsory.

Attempt any **3** questions from Section B.

Parts of a question must be answered together.

Section A

(Compulsory)

1. (*a*) What is the usage of Android Manifest.xml file ?   1

    (*b*) XML tags are case sensitive. (True *or* False)   1

    (*c*) Which file in Android application contains permissions to use features on device, API information. minimum required Android SDK version, activities information and so on ?   1

    (*d*) What Activity method you use to retrieve a reference to an Android view by using the id attribute of a resource XML ?   1

(e)   What is the second layer from top called in the Android's Architecture ?   1

(f)   Which method is used to call another activity when we expect to get something back from the called activity ?   1

(g)   Write appropriate statements for the following :   2+2

   (i)   To display text notification (toast) on screen with message "Hello User !" for a long period of time.

   (ii)   To insert a row for John, Roll No : 2140152 in table STUDENT (_IDINTEGER AUTOINCREMENT, NAME TEXT, ROLL_NO INTEGER) in SQLite database.

Section B

(Attempt any *three*)

2.   Describe the following :

   (a)   ART (Android Runtime)   2.5

   (b)   Ninepatch bitmaps   2.5

3.   What are intents ? What are the various types of intents in Android ? Explain with example.   5

4.   (a)   What are the main components/building blocks of an Android application ?   2

   (b)   Define activity. Explain activity lifecycle through various callback methods that are called during life time of an activity.   3

5.   What is SQLite database ? How to provide that database connection using SQLite database.   5

6. Give an overview of the classes listed below : 5

   (a) MenuInflater

   (b) Spinner

   (c) Array Adapter

   (d) Toast

   (e) Alert Dialog.