

This question paper contains 3 printed pages]

Roll No. 

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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)

- (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

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- (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 databasc connection using SQLite database. 5

Give an overview of the classes listed below :

5

- (a) MenuInflater
- (b) Spinner
- (c) Array Adapter
- (d) Toast
- (e) Alert Dialog.