

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

P.T.O.

Application Framework (2)

2109

(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 ? *startActivityForResult()*

(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. *Toast t = Toast.makeText(getApplicationContext(), "Hello User", Toast.LENGTH_LONG);*

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

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.