

U.B. 29/11/18

[This question paper contains 4 printed pages]

**Your Roll No.** : .....

**Sl. No. of Q. Paper** : 482 I

**Unique Paper Code** : 32343305

**Name of the Course** : **B.Sc.(Hons.) Computer Science : SEC**

**Name of the Paper** : **Android Programming**

**Semester** : III

**Time : 2 Hours** **Maximum Marks : 25**

**Instructions for Candidates :**

- (a) Write your Roll No. on the top immediately on receipt of this question paper.
- (b) **Section-A** is compulsory.
- (c) Attempt any **three** questions from **Section-B.**

### **Section - A**

1. (a) Why JAVA is considered to be platform independent ? 1

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- (b) Describe the requirement of Kernel layer in Android architecture. 2
- (c) Write code snippet to handle click event on a button named "ButtonA" in an activity. 2
- (d) Explain the following terms : 2
  - (i) SDK manager
  - (ii) Android emulator
- (e) Write down a query( ) method to get the name, rollno, and course for the student with name "Andy" from table named StudentInfo. Assume 'db' is an object of SQLite Database class. 3

### Section - B

2. (a) Describe the linear layout in android. 2
- (b) Differentiate between function overloading and function overriding in JAVA with an example. 3



3. Describe SQLite database. Write the code for adding and removing data from SQLite database.

5

4. (a) What are ART and DVM ? Explain.

3<sup>2</sup>

(b) Suppose there are two activities : Activity A and Activity B. Activity A calls Activity B when user presses a button. Then user presses back button twice. Write down the status of activity stack (assume stack is empty) and the change in the states of Activity A and Activity B using lifecycle methods.

3

5. (a) Write any **three** components of android.

2

(b) Explain the following classes

3

(i) Check Box

(ii) Image View

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6. Give the necessary code snippets that need to be incorporated to send or to receive broadcast messages.

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