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Roll No.

TCS-602

B. Tech. (CSE) (SIXTH SEMESTER) END SEMESTER EXAMINATION, 2019

MOBILE APPLICATION DEVELOPMENT

Time: Three Hours

Maximum Marks: 100

- Note:(i) This question paper contains five questions.
 - (ii) All questions are compulsory.
 - (iii) Instructions on how to attempt a question are mentioned against it.
 - (iv) Total marks assigned to each question are twenty.
- 1. Attempt any two questions of choice from (a), (b) and (c). (2×10=20 Marks)
 - (a) What is Android Studio? What are the different tools in studio bundle that developers use to create apps for Android phones?

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- (b) What are the differences between Context Menu and Options Menu? What are the differences between a Dialog and Toast?
- (c) How to use a Listview or a Gridview?

 Create a simple application in android displaying several texts from an array.
- 5. Attempt any two questions of choice from (a), (b) and (c). (2×10=20 Marks)
 - (a) What is SQLite and why is it used in Android applications? Can it be used in creating applications which stores data in a distributed manner?
 - (b) What are JDBC Open Helper classes and DBAdapters in context of SQLite? Why do programmers use them against ordinary fetch and write code as done in databases?
 - (c) Create a Quiz app in android where questions and their options and answers will be picked from a local database. Try to create a suitable and minimal user interface.

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terminologies and explain each of them in following the among (7) (b) Distinguish detail:

(i) ADB vs. Emulator

(ii) NIJK vs. JDK

(iii) Android OS vs. IOS (iphone)

platform tools? Explain project structure What are the android SDK tools and of any Android project. <u>છ</u>

2. Attempt any two questions of choice from (a),

(b) and (c).

(2×10=20 Marks)

Android OS to reduce time and space usage. Explain how? Also elucidate the (a) Linux kernel offers COW policy that helps Android OS Architecture in brief.

on a device. Explain in detail each step and emphasize on the importance of these Explain the boot process of Android OS

process? How does a system server What do you understand by System server handles various android services?

3. Attempt any two questions of choice from (a), (b) and (c).

(2×10=20 Marks)

suitable code to create a messenger based (a) What are Services in Android? Write a

(b) Write a basic code to update a textview service using a local broadcast receiver. Create all three components activity, started service and broadcast receiver. (c) What are the Android app components? bounded services displaying certain life Discuss the life cycle of started and cycle calibacks. Attempt any two questions of choice from (a), (2×10=20 Marks) (b) and (c).

create a Java solution for the following (a) Using Executor framework or otherwise,

problem:

lists of numbers. Now, sort every list on a separate CPU and then find the average Consider an array list of three other array among all the three lists conjoined.