

Printed Pages: 02

Subject Code: NCS075

Paper Id: : 110719

Roll No:

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B TECH
(SEM-VII) THEORY EXAMINATION 2018-19
ANDROID OPERATING SYSTEM

Time: 3 Hours

Total Marks: 100

- Note:** 1. Attempt all Sections. If require any missing data; then choose suitably.
2. Any special paper specific instruction.

SECTION A

1. **Attempt all questions in brief.** **2 x 10 = 20**
- a. Write down the main components that can be used within an Android application.
 - b. What do you mean by Android Debug Bridge (adb) in Android?
 - c. Discuss the role of Intents in Android.
 - d. When we implement the concept of Fragments in Android Development?
 - e. Which class allows recording of audio and video files on an Android device?
 - f. List out the various valid video codec supported by Android.
 - g. What do you mean by XML Parsing?
 - h. Which class manages the WiFi connectivity functionality in Android?
 - i. What is meant by Touch Gestures in Android?
 - j. List out the basic touch mechanisms used for Gesture.

SECTION B

2. **Attempt any three of the following:** **10 x 3 = 30**
- a. Discuss the Activity Software Stack and Activity States with the help of diagram.
 - b. Explain the concept of Adapters and Data Binding used in Android Application Development.
 - c. Discuss the use of Media Player class for playing audio/video with various transitions and methods with the help of an example.
 - d. Which XML Parser is used in Android? Explain the various steps of using it with an example.
 - e. How do we detect the common Gestures in Android? Explain its phases.

SECTION C

3. **Attempt any one part of the following:** **10 x 1 = 10**
- (a) What are the various layouts used for Android UI designing. Explain with UI code.
 - (b) Discuss in detail about the Android Software Stack framework with diagram.
4. **Attempt any one part of the following:** **10 x 1 = 10**
- (a) Describe Intents and its types used in Android. Also discuss the role of Broadcast Receivers in Android Development.
 - (b) Discuss the various types of Views used for Android Application Development with UI code.

5. **Attempt any *one* part of the following:** **10 x 1 = 10**
- (a) Explain the process of using Camera for taking and process images in Android with various classes and methods. Discuss with an example.
 - (b) How the recording of videos in Android done using Media Recorder class & its methods. Explain with an example.
6. **Attempt any *one* part of the following:** **10 x 1 = 10**
- (a) Explain the working with WiFi in Android. Also discuss how do we create and manage a WiFi Configurations in Android.
 - (b) Write the code to build an Android Application to send Email by invoking the built-in Email application provided by Android.
7. **Attempt any *one* part of the following:** **10 x 1 = 10**
- (a) How do we detect gestures that involve multiple pointers? Also discuss how do we manage touch events in a View Group?
 - (b) Explain Scrolling and its types. How do we animate a Scroll Gesture?

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