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**B. TECH**  
**(SEM VII) THEORY EXAMINATION 2020-21**  
**ANDROID OPERATING SYSTEM**

**Time: 3 Hours****Total Marks: 100****Note:** Attempt all Sections. If require any missing data; then choose suitably.**SECTION A**

- 1. Attempt all questions in brief. 2 x 10 = 20**
- a. Compare Android OS with IOS.
  - b. Explain the static and dynamic elements of multimedia.
  - c. How a typical HTTP request looks like?
  - d. Why we need Android Adapter?
  - e. What are the four states in Android Activity Life Cycle?
  - f. How an event is handled in android?
  - g. List the limitations while designing a widget.
  - h. Mention the usage of On Touch Event () Method.
  - i. State the appropriate method used for scanning wireless networks.
  - j. Write short note on XML parsing.

**SECTION B**

- 2. Attempt any three of the following: 10x3=30**
- a. How to parse XML data in Android?
  - b. Write the code for creating an application which is used to send a custom Broadcast intent.
  - c. How the resources are organized in Android? Write the Code for Accessing the resources.
  - d. Describe the role of Delvik Virtual Machine.
  - e. How to launch the existing camera application to capture an image and display the result in the form of bitmap?

**SECTION C**

- 3. Attempt any one part of the following: 10x1=10**
- a. What are the different types of topologies, explain with example?
  - b. Explain in detail about Android Layouts. List out the attributes of layout.
- 4. Attempt any one part of the following: 10x1=10**
- a. Explain the in-app mechanism for playing audio and video.
  - b. Describe the Android Architecture and difference between android architecture and android stack.
- 5. Attempt any one part of the following: 10x1=10**
- a. Write the code for creating an application which is used to send a custom Broadcast intent.
  - b. Describe how style and theme are applied to an activity?
- 6. Attempt any one part of the following: 10x1=10**
- a. Create an application to capture the photo through the front camera and save it in SD card
  - b. Create a simple application that connects to the network and perform the network operations.
- 7. Attempt any one part of the following: 10x1=10**
- a. Write short notes on
    - i. Multi touch gestures.
    - ii. How to send an email to the client from our application.
  - b. Write a code for creating a tab layout to show different screen for each tab. Create three tabs and set different images and screen for each tab.