Subject Code: NCS075

PAPER ID-310037

Roll No: | | | | | | | | | | | | | |

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.

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