

Course Code : CST 313

MQNR/MW – 19 / 9606

**Fifth Semester B. E. (Computer Science and Engineering)
Examination**

MOBILE APPLICATION PROGRAMMING

Time : 3 Hours]

[Max. Marks : 60

Instructions to Candidates :—

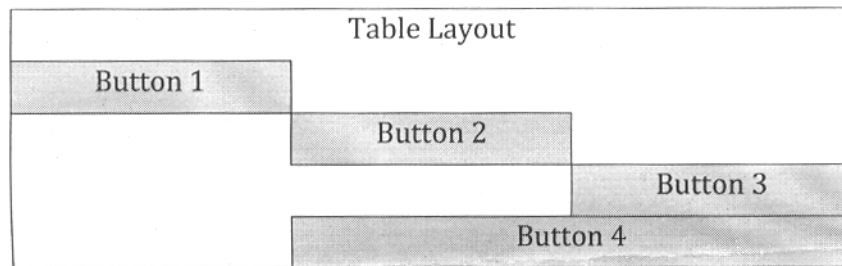
- (1) Assume suitable data wherever necessary.
- (2) All questions carry marks as indicated against them.

1. (a) Differentiate between FDMA, TDMA and CDMA with proper example. 5(CO1)
(b) Draw Cellular Architecture and write sequence of steps when a call is initiated by mobile phone. 5(CO1)
2. (a) In designing an application the important feature is to develop an application which is useful. Discuss the parameters to measure the usability of an application. 5(CO2)
(b) What is task analysis ? Explain with the example. 5(CO2)
3. Solve any **Two** :
(a) Briefly describe architecture of android application. 5(CO2)
(b) Consider an application has two layout formats one for each portrait and landscape mode. Write the code which would check the orientation of phone and changes the layout accordingly. Also discuss why this feature works in android. 5(CO2)

MQNR/MW-19 / 9606

Contd.

- (c) Design the layout given below using table layout. Does Table Layout support orientation changes ?



5(CO2)

4. (a) Design a context menu for cut, copy and paste operation for a TextView. Your design should contain two textviews both enabled with context menu for demonstration. (Write Java file only). 7(CO2)
- (b) Explain the utility of pending intent in notification. 3(CO2)

OR

- (c) Differentiate between startActivity and startActivityForResult with an example. 3(CO2)
5. (a) If an android application wants to execute a long running task as a background service is it possible to run it on the main thread. Discuss. Provide suitable code snippets as example. 7

OR

- (b) Design an android application to read the contacts with the help of content provider and display the contacts as a list. 7(CO3)
- (c) Name the method that enables you to obtain the external storage path for an Android device. Use the method and explain how it works. 3(CO3)
6. (a) What is service ? How to create, start and stop a service ? Explain with an example. 5(CO4)
- (b) Explain MapView and Mapactivity with example. 5(CO4)