

Roll No.

Total Pages : 2

BT-8/M-20

38154

MOBILE APPS DEVELOPMENT

Paper–CSE-404N

Time Allowed : 3 Hours]

[Maximum Marks : 75

Note : Attempt **five** questions in all, selecting at least **one** question from each Unit. All questions carry equal marks.

UNIT-I

1. (a) What are the different features of Android OS and its applications? 10
- (b) What are the steps of setting up the mobile app development along with an emulator on Windows OS and Linux OS? 5
2. What do you mean by MENU? Explain the steps to design context menu and popup menu with an simple example. 15

UNIT-II

3. What are different Android Activity Life cycle methods? Explain when and why these methods are called during activity. 15

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4. What is use of Content provider in android app development? Write Mobile App to insert, update or delete data in a content provider. 15

UNIT-III

5. Develop a mobile app to record and play back Audio clip. 15
6. What is use of SQLite database? Write a mobile app to save (number data type, text data type and boolean data type) in SQLite. 15

UNIT-IV

7. (a) What do you mean by White box testing and Black box testing? 8
- (b) What are different steps to debug mobile app in Visual studio? 7
8. Write JUnit program to test for factorial calculating mobile app. 15