Reg. No.										

MANIPAL INSTITUTE OF TECHNOLOGY

MANIPAL

(A constituent unit of MAHE, Manipal)

VII SEMESTER B.TECH. (COMPUTER SCIENCE AND ENGINEERING)
END SEMESTER EXAMINATIONS, DECEMBER 2021

SUBJECT: ANDROID APPLICATION DEVELOPMENT [CSE 4062]

REVISED CREDIT SYSTEM

(17/12/2021)

Time: 75 + 10 MINUTES MAX. MARKS: 20

Instructions to Candidates:

- Answer **ALL** the questions.
- Missing data may be suitably assumed.

1A Create an application with one activity. The Activity should contain three edit texts (user id, username and mobile number) and two buttons (save and retrieve). On click of save button, all the data should be saved to the database. On click of retrieve button, the username and mobile number should be retrieved from database for the entered user id. Use Student class to save and retrieve data. Write all the class files. **5M**

1B Create an application with two activities. In the first activity place a button with text "Send Notification". On clicking the button, a Notification should be sent with the message "Notification from my app". In the second activity a message "You have clicked on Notification" should be displayed. User on clicking the notification should open the second activity of the application. Write the class file for both activities. **3M**

1C Create an activity with a textview and a button. On click of the button, the text inside textview should rotate in x axis for a duration of 10 secs and then repeat infinitely in reverse direction. Write the class file. **2M**

2A Create an app with two activities. The first activity should contain three buttons, accelerometer, proximity and light. Based on the button clicked, the second activity should display the appropriate sensor data using a label whenever senor data changes. Write the class files of both the activities. **5M**

2B Create an app with a label and a button inside LinearLayout. On clicking the button, a counter should start. The counter indicates the number of seconds elapsed since the button click. The counter value should be displayed on the label. Design a solution using AsyncTask. Write the Layout and Java code. **3M**

2C Write the unit test class using JUnit to test the function which identifies whether a number given as input is prime or not. Write two test methods, one to test prime and the other to test non prime. **2M**

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