Reg. No. | | | | | | | | | |

Manipal Institute of Technology, Manipal

(A Constituent Institute of Manipal University)

VII SEMESTER B.TECH (COMPUTER SCIENCE AND ENGINEERING)
END SEMESTER EXAMINATIONS, NOV/DEC 2015

SUBJECT: MOBILE APPLICATION DEVELOPMENT [CSE 447]
REVISED CREDIT SYSTEM

Time: 3 Hours   01/12/2015   MAX. MARKS: 50

1A. Explain the logical landscape of mobility panorama.   3M
1B. What is application framework? Mention various components of application framework. Write the function of telephony manager and notification manager.   3M
1C. Write a main Activity class that shows the six life cycle methods of an activity to display it as a log message in a logcat. Each of the six methods have to be overridden and in each method a log statement (string tag name, string message) should be placed to reflect the life cycle method and state as transition happens. Let the tag for all six be ActivityLifeCycleMethods & appropriate string message appear for each method.   4M

2A. Write the XML & main activity to have a radio group consisting of two radio buttons; one "male" & another "female". After choosing any one of them & then on pressing a button 'click', display a toast message 'male selected' or 'female selected' on the screen.   4M
2B. Explain how do you access UI controls of one fragment within another fragment.   2M
2C. Differentiate between context menu and option menu. Give example for each.   4M

3A. What are the different modes of operations used in services for Android?   3M
3B. Differentiate between service and thread.   3M
3C. Explain how to create, insert and fetch data from SQLite database.   4M

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4A. Explain a method by which SMS message is sent.   2M
4B. What is the use of Handler class? Explain the member variables and functions of the class.
                                                                                             3M
4C.What is frame animation? Write the code to create an activity to load the image View and
   play this animation.   5M

5A. Explain how to get the current location.   2M
5B. Explain various callback methods with google play service client.Connection.   3M
5C. Explain the multimedia API playback mechanism with respect to audio and video.   5M

6A.Explain Android instrumentation framework with proper class diagram & test class structure.
                                                                                             5M
6B.Explain how to check network connection with proper syntax.   3M
6C.Explain the steps involved in publishing Android Apps.   2M