



Register Number:

Date: 19-11-2020

**ST. JOSEPH'S COLLEGE (AUTONOMOUS), BANGALORE-27**  
**M.Sc(COMPUTER SCIENCE) –III SEMESTER**  
**END SEMESTER EXAMINATION: NOVEMBER 2020**  
**CS9218 : MOBILE COMMUNICATION AND APPLICATIONS**

Time- 2 1/2 hrs

Max Marks-70

This Question paper contains two printed pages and one part.

Answer any seven questions:

7 \* 10 = 70

1. a. Explain the Reference model of TCP/IP. (5)  
b. Compare the mechanisms of SDMA, TDMA, FDMA, and CDMA with their functions. (5)
2. Explain in detail about the system architecture of Global System for Mobile Communication.
3. a. How can the tunneling and encapsulation be performed in mobile IP? Explain. (5)  
b. What is Mobile IP? Explain agent discovery, registration and encapsulation. (5)
4. a. What is Triangle routing problem and accordingly what is the solution for it? (5)  
b. Compare and Contrast between LEO, GEO and MEO. (5)
5. a. What are the benefits For Organizations And IT Departments By Using Blackberry mobile technology? (5)  
b. How android is different from other OS? Mention its importance. (5)
6. a. Explain in detail about Android Protocol Stack. (5)  
b. How to create and set up android emulator? (5)
7. a. Explain in detail about the steps to install android studio. (6)  
b. What is AVD and what for it is used. (4)
8. Write a program to apply a theme and a style in android.
9. a. Demonstrate an android program to add a menu in the application. (5)  
b. Write any three differences between debugging with log messages and debugger, which is efficient to use in Android studio? (5)

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