LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.C.A. DEGREE EXAMINATION – COMPUTER APPLICATIONS

FOURTH SEMESTER – NOVEMBER 2016

CA 4809 - MOBILE COMPUTING

Date: 12-11-2016   Dept. No.   Max. : 100 Marks
Time: 01:00-04:00

PART – A

Answer ALL questions   **10 X 2 = 20**

1. What is WPAN?

2. List the types of middleware components and gateways.

3. Give the categories of GSM services.

4. Define GPRS.

5. What are IEEE standards?

6. Define Wireless Transaction Protocol.

7. What is VoIP?

8. Write few features of the file system in a mobile computing system.

9. What is context in mobile computing?

10. Define MANET.

PART – B

Answer ALL questions   **5 X 8 = 40**

11. a) Write note on mobile computing functions.
          Or
    b) Describe various multiple access techniques.

12. a) What is the need for handovers? Explain its scenarios in GSM network.
          Or
    b) Elucidate on the advantages and disadvantages of various satellite orbits.

13. a) Write short notes on Bluetooth technologies.
          Or
    b) Discuss on the various layers of WAP.

14. a) Explain how the location management of mobile node is done.
          Or
    b) Illustrate on service discovery of mobile devices.

15. a) Explain the recovery process of mobile data.
          Or
    b) Describe in detail on mCommerce.

PART – C

16. a) With a neat diagram explain the mobile computing architecture.

    b) "Android is the popular mobile OS because of its features" - Justify.

17. a) Explain the architecture of GSM with necessary diagram.

    b) Elaborate the system and protocol architecture of WirelessLAN.

18. a) Discuss on tunneling and encapsulation of mobile IP.

    b) Explain the various forms of mobile data organization.

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