



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.C.A. DEGREE EXAMINATION – COMPUTER APPLICATIONS

FOURTH SEMESTER – APRIL 2016

CA 4809 - MOBILE COMPUTING

Date: 21-04-2016

Dept. No.

Max. : 100 Marks

Time: 09:00-12:00

PART – A

Answer ALL questions

10 X 2 = 20

1. Who is responsible for standardizing mobile communication?
2. How cellular system does get implemented?
3. List the basic services of GSM.
4. What are the limitations of GPRS?
5. Give the advantages of infra red technologies.
6. Write the scenario of wireless PICONETS.
7. Define Cellular IP.
8. Give the characteristics of a mobile agent.
9. Define data caching.
10. What is MANET?

PART – B

Answer ALL questions

5 X 8 = 40

11. a) What are the characteristics of mobile computing functions?

Or

- b) Explain the following: (i) SDMA (ii) FDMA (iii) TDMA.

12. a) Illustrate various handovers of GSM network.

Or

- b) Describe the network operations of GPRS.

13. a) Write note on HIPERLAN.

Or

- b) Elucidate the following:

- (i) Wireless Telephony application

- (ii) Wireless session protocol

14. a) Discuss about agent discovery and registration of mobile IP's.

Or

- b) Describe the functions of application server in mobile computing.

15. a) Write short note on mobile data organization.

Or

- b) Discuss about the features of mCommerce.

PART – C

Answer any TWO questions

2 X 20 =40

16. a) Discuss on the design considerations of mobile computing.

b) With necessary diagram describe GSM architecture.

17. a) Explain Bluetooth architecture and protocol stack.

b) Describe the service discovery of mobile applications.

18. a) What is content awareness mobile computing? Explain.

b) Discuss the features of Android OS.
