



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.C.A.DEGREE EXAMINATION – COMPUTER APPLICATIONS

FOURTHSEMESTER – APRIL 2018

CA 4809- MOBILE COMPUTING

Date: 08-05-2018
Time: 09:00-12:00

Dept. No.

Max. : 100 Marks

SECTION-A

ANSWER ALL THE QUESTIONS:

(10 X 2 = 20)

1. What is Session Mobility?
2. What are communication gateways?
3. What is the usage of PLMN interface?
4. Define GPRS.
5. Enumerate any two features of RFID.
6. State any two functionalities of WSP.
7. What is the role of Home Agent?
8. What is J2ME?
9. What are ACID rules?
10. State any two features of mCommerce.

SECTION-B

ANSWER ALL THE QUESTIONS:

(5 X 8 =40)

11. a) List out some of the applications and services in mobile computing.
(OR)
b) Describe Middleware and gateways.
12. a) Explain the protocol architecture of GPRS.
(OR)
b) Discuss the authentication and security procedures of GSM.
13. a) Describe about the Infrastructure and Adhoc Networks.
(OR)
b) Explain the features of WML.
14. a) Discuss in brief about the role of Mobile Agents.
(OR)
b) Explain the features of Smart Mobile devices.
15. a) Explain the architecture of Query Processing.
(OR)
b) Explain the features of Power Aware Mobile Computing.

SECTION-C

ANSWER ANY TWO QUESTIONS:

(2 X 20 = 40)

16. (a) Describe about the three tier architecture of mobile computing. (10)
(b) Elaborate about the procedure of Call routing in GSM. (10)
17. (a) Explain about WAP gateways. (10)
(b) Explain the different procedures involved in Mobile IP. (10)
18. (a) Describe the steps involved in data caching. (10)
(b) Describe about the ADO.Net transactional model (10)
