



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.C.A. DEGREE EXAMINATION – COMPUTER APPLICATIONS

FOURTH SEMESTER – APRIL 2018

16PCA4MC02- MOBILE COMPUTING

Date: 20-04-2018
Time: 01:00-04:00

Dept. No.

Max. : 100 Marks

SECTION-A

ANSWER ALL THE QUESTIONS:

(10 X 2 = 20)

1. What is Ubiquitous Computing?
2. Define Session Mobility.
3. Define Handover.
4. What is UTRAN?
5. Define Adhoc Wireless Networks.
6. What are the advantages of Infrared technology?
7. What is the role of Foreign Agent?
8. What is latency?
9. Define database.
10. State any two features of Symbian OS.

SECTION-B

ANSWER ALL THE QUESTIONS:

(5 X 8 =40)

11. a) Explain the different types of middleware.
(OR)
b) Describe the functions of Presentation and Data Tier.
12. a) Explain the technique in localization.
(OR)
b) Discuss about the data services in GPRS.
13. a) Describe about the WATM services.
(OR)
b) Explain the architecture of Bluetooth.
14. a) Discuss in brief about Tunneling and Encapsulation procedures in Mobile IP.
(OR)
b) Explain about the Congestion control in Traditional TCP.
15. a) Explain data caching in mobile environment.
(OR)
b) Describe about Checkpoint based data recovery procedure.

SECTION-C

ANSWER ANY TWO QUESTIONS:

(2 X 20 = 40)

16. (a) Describe the different multiple access procedures. (10)
(b) Elaborate about the architecture of GSM. (10)
17. (a) Discuss about MAC management in IEEE 802.11. (10)
(b) Explain the functioning of Mobile TCP. (10)
18. (a) Describe the database transactional models. (10)
(b) Explain the features of Context Aware Mobile Computing. (10)

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