



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

B.C.A. DEGREE EXAMINATION – COMPUTER APPLICATIONS

FIFTH SEMESTER – APRIL 2018

CA 5407- CELLULAR AND MOBILE COMPUTING

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

Dept. No.

Max. : 100 Marks

PART A

(10 x 2 = 20 marks)

Answer ALL the questions.

1. Define Mobile computing.
2. What are the different types of Multiplexing?
3. Define frequency reuse.
4. What is Radio frequency?
5. State any two components of Mobile IP.
6. Give any two advantages of Mobile TCP.
7. What is the need of WAP?
8. How does a Wi-Fi network works?
9. Write the benefits of SMS.
10. Define Pervasive computing.

PART B

(5 x 8 = 40 marks)

Answer ALL the questions.

- 11 a. Discuss the characteristics of Mobile computing.
(OR)
b. Explain N-Tier architecture and WWW.
- 12 a. Explain 3rd generation Mobile Communication networks.
(OR)
b. Discuss about CSMA with its different types.
- 13 a. Compare IPV4 and IPV6
(OR)
b. Explain Mobile IP operation
- 14 a. Explain the mobility management in GPRS.
(OR)
b. Explain WAP protocols.
- 15 a. Explain WSDL.
(OR)
b. Explain about Mobile Web.

PART C

(2 x 20 = 40 marks)

Answer any TWO questions.

- 16 a. Discuss in detail about Cellular system.
b. Explain briefly about Bluetooth and its types.
- 17 a. Explain SMS with its architecture.
b. Explain about Mobile Transport layer.
- 18 a. Explain in detail about the GSM architecture with its components.
b. Discuss the introduction about smart phone.

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