



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

B.C.A. DEGREE EXAMINATION – COMPUTER APPLICATIONS

FIFTH SEMESTER – NOVEMBER 2017

CA 5407 - CELLULAR AND MOBILE COMPUTING

Date: 15-11-2017
Time: 09:00-12:00

Dept. No.

Max. : 100 Marks

PART A

Answer ALL the questions.

(10 x 2 = 20 marks)

1. Define Mobile computing.
2. List any two dimensions of Mobile Computing.
3. Define frequency reuse.
4. What is a Handoff?
5. State any two components of Mobile IP.
6. Give any two advantages of Snooping TCP.
7. Expand: BSC, GPRS
8. What is a SOAP?
9. Define Pervasive computing.
10. What are the features of Wi-Fi network?

PART B

Answer ALL the questions.

(5 x 8 = 40 marks)

11 a. Discuss the characteristics of Mobile computing.

(OR)

b. Compare TDMA and CDMA.

12 a. Discuss the advantages of Radio frequency (RF) and Infrared (IR).

(OR)

b. Explain 3rd generation Mobile Communication networks.

13 a. Compare IPV4 and IPV6

(OR)

b. Explain Mobile IP entities.

14 a. Explain the WAP architecture.

(OR)

b. Explain the mobility management in GPRS

15a. Discuss the characteristics of Pervasive computing

(OR)

b. Explain WSDL.

PART C

Answer any TWO questions.

(2 x 20 = 40 marks)

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

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