



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

B.C.A.DEGREE EXAMINATION –COMPUTER APPLICATIONS

FIFTH SEMESTER – APRIL 2019

CA 5407– CELLULAR AND MOBILE COMPUTING

Date: 24-04-2019
Time: 09:00-12:00

Dept. No.

Max. : 100 Marks

Part – A

Answer the following

10X2=20

1. What are the characteristics of mobile computing?
2. What are the different types of signals?
3. What is a scatternet?
4. What is UMTS?
5. What are the different address types of Mobile IPv6?
6. Give any two advantages of Snooping TCP.
7. Define HLR.
8. Expand BSC and GSM.
9. Mention a few applications of pervasive computing.
10. What is SOAP?

Part – B

Answer the following

5X8=40

- 11a. Discuss the different types of Mobile Development Framework.
(OR)
- 11b. Write a short note on TDMA and CDMA.
- 12a. Describe the Wireless Network Architecture with a neat sketch.
(OR)
- 12b. Explain the components of MAC layer in IEEE 802.11.
- 13a. Discuss the advantages of Radio frequency (RF) and Infrared (IR).
(OR)
- 13b. Compare IPv4 and IPv6.
- 14a. Discuss the architecture and applications of WAP.
(OR)
- 14b. Discuss about MMS in detail.
- 15a. Discuss about the features of WI-FI & WI-MAX.
(OR)
- 15b. Discuss the characteristics of Pervasive computing

Part – C

Answer any TWO of the following

2x20=40

- 16a. Explain in detail about Cellular system.
b. Discuss the various components and architecture of IEEE 802.11.
- 17a. Discuss in detail about Mobile Transport Layer.
b. Explain the GPRS protocol suite and its interfaces.
- 18a. Explain the applications of web services with example.
b. Discuss the introduction about smart phone.
