

FIFTH SEMESTER B.C.A. DEGREE EXAMINATION, NOVEMBER 2015

(UG—CCSS)

Core Course

CA 5B 07—DATA COMMUNICATION AND MOBILE COMPUTING

Three Hours

Maximum : 30 Weightage

Section I*Answer all questions.*

1. A communication link capable of transmitting in both direction, but not at the same time is _____.
2. _____ gives a relation between channel capacity and bandwidth.
3. A communication system in which bits are transmitting at random interval is _____.
4. The digital version of FM is _____.
5. Give one error correction technique.
6. Give an example of guided media.
7. Give an example for full duplex system.
8. _____ media gives complete electrical isolation.
9. GSM uses _____ standard.
 - (a) TDMA.
 - (b) CDMA.
 - (c) FDMA.
 - (d) None of these.
10. In _____, the multiple users are not interleaved in time on a given channel.
 - (a) TDMA.
 - (b) CDMA.
 - (c) FDMA.
 - (d) None of these.
11. The two new nodes introduced in GPRS standard is SGSN and _____.
12. Frequency is inversely proportional to _____.

(12 × ¼ = 3 weightage)

Section II*Answer all nine questions.*

1. What is a full duplex system ?
2. What is PWM ?

Turn over

15. What is a twisted pair ?
16. Give one advantage of CDMA over TDMA.
17. Give one advantage of CRC over parity.
18. Give the two serial transmission schemes.
19. What are the different basic digital modulation schemes.
20. What is STDM ?
21. Give one advantage of coaxial cable over twisted pair.

(9 × 1 = 9 weig

Section III

Answer any five questions.

22. Explain CRC.
23. What is PCM ?
24. Explain FDM ?
25. Write a note on three-tier architecture GSM.
26. What is CD MA ?
27. Write notes on applications of GPRS in modern communication. What are its limitations ?
28. Give an overview of WAP.

(5 × 2 = 10 weig

Section IV

Answer any two questions.

29. What are the different types of multiplexing schemes ?
30. Write notes on GSM technology. Compare it with CD MA.
31. Give notes on guided media. Compare them.

(2 × 4 = 8 weig