

Roll No.

Total Pages : 2

BT-8/D-19

38193

MOBILE COMMUNICATION

Paper-IT-402-N

Time : Three Hours]

[Maximum Marks : 75

Note : Attempt *five* questions in all selecting at least *one* question from each unit. All questions carry equal marks.

UNIT-I

1. (a) What is GFSK modulation technique? Discuss its applications.
(b) What do you understand by handoff? What is the difference between hard handoff and soft handoff? Explain.
2. What do you understand by non cochannel interference? What are the different types of it? Discuss in detail.

UNIT-II

3. What is smart antenna? What are its characteristic features? What are the different types of it? Explain.
4. (a) What is a parasitic element in a radio antenna? What is the purpose of it? Discuss.
(b) What is the effect of antenna tilting on transmitting power in mobile cellular communication systems?

UNIT-III

5. (a) What do you understand by TDMA? How is it different from FDMA?
(b) What is IS-136? Give its technical specifications.
6. What is GSM standard? What is UMTS? What are its advantages? Explain.

UNIT-IV

7. What is VSAT? What are its different constituent parts? What are its applications? Explain.
 8. What is Global Positioning System (GPS)? How does it work? Explain.
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