

Roll No.

23072

M. Tech. 2nd Semester (Computer Engg.)

Examination – January, 2012

MOBILE & WIRELESS COMMUNICATION

Paper : MTCE-606-A

Time : Three hours]

[Maximum Marks : 100

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Attempt any *five* questions.

1. (a) What are the main reasons for using cellular system ? 10
- (b) Define multiplexing and give its applications. 10
2. (a) Which types of different services does GSM offer ? 10
- (b) Compare SDMA, TDMA, FDMA and CDMA mechanism. 10

3. (a) Why is there hardly any space in space for GEO's ? 10
(b) Explain digital video broadcasting. 10
4. (a) Why is phy layer in IEEE802.11 subdivided ? 10
(b) Explain Bluetooth with its protocol stack. 10
5. (a) What advantages does the use of IPV₆ offer for mobility ? 10
(b) Explain reverse tunneling in mobile IP ? 10
6. Explain mobile ad-hoc networks ? 20
7. (a) How and why does I-TCP isolate problems on the wireless link ? What are the main drawbacks of this solution ? 10
(b) How congestion is controlled in TCP ? 10
8. Write short notes on : 20
(a) HTTP,
(b) Wireless Datagram Protocol.
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