

B.E. (I.T.)

Sem 7 (Rev.)  
Mobile Computing

11/12/07

Con. 5419-07.

(REVISED COURSE)  
( 3 Hours)

CD- 7233  
[Total Marks : 100]

N. B. : (1) Question No. **one** is **compulsory**.  
(2) Attempt any **four** out of the remaining **six** questions.

- Q.1 a) Explain in detail. [10]
  - i) Near and far Terminals
  - ii) Hidden and exposed terminals
- b) Explain DECT System architecture reference model and protocol architecture. [10]
  
- Q.2 a) Draw block diagram of FHSS transmitter & receiver. Differentiate between slow frequency and fast frequency hopping. [10]
- b) Explain HIPERLAN2 basic structure and handover scenarios. [10]
  
- Q.3 a) Discuss some of the routing protocol and strategies suitable for ad-hoc mobile network. [10]
- b) Explain Bluetooth protocol stack with neat diagram. [10]
  
- Q.4 a) Explain GPRS architecture reference model and show the protocol architecture of the transmission plane for GPRS. [10]
- b) Explain power management in IEEE 802.11 infrastructure network and ad-hoc networks. [10]
  
- Q.5 a) Explain System architecture of a GSM System [10]
- b) Explain Digital Video Broadcasting. [10]
  
- Q.6 a) Explain WATM reference model with several access scenarios [10]
- b) Compare Iridium, Globalstar, ICO, Teledesic [10]
  
- Q.7 Write notes on (any two) [20]
  - a) IPv6 in mobile communication
  - b) Indirect TCP, Mobile TCP, and Snooping TCP
  - c) Architecture and protocol supported by WAP
  - d) CDMA

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