

B.E. sem 7 (Rev.)

I.T.

Mobile Computing

26/5/08

P3/1 H KL-08/514

Con. 3088-08.

(REVISED COURSE)

(3 Hours)

CO-3535

[Total Marks : 100

- N. B. :** (1) Question No. 1 is **compulsory**.
(2) Attempt any **four** questions out of remaining **six** questions.
1. (a) Explain system architecture of a GSM system. 10
(b) Draw the block diagram of FHSS transmitter and receiver. Differentiate between slow hopping and fast hopping. 10
 2. (a) Explain WATM reference model with several access scenarios. 10
(b) Why routing in adhoc network is complicated ? What are special challenges ? 10
 3. (a) Explain power management in IEEE 802.11 infrastructure network and ad-hoc networks. 10
(b) Explain Digital Video Broad Casting. 10
 4. (a) Explain Bluetooth protocol stack with neat diagrams. 10
(b) Explain HIPERLAN 2 basic structure and handover scenarios. 10
 5. (a) Explain DECT system architecture reference model and protocol architecture. 10
(b) Compare Iridium, Globalstar, ICO and Teledesic. 10
 6. (a) Explain in detail :— 10
(i) Near and Far Terminals
(ii) Hidden and exposed terminals.
(b) What are the primary goals of the WAP Forum efforts and how are they reflected in the WAP protocol architecture ? 10
 7. Write notes on any **two** :— 20
(a) Indirect TCP, mobile TCP and snooping TCP.
(b) UMTS basic architecture and frame structure for UMTS FDD mode.
(c) IPV6 in mobile communication.
(d) CDMA.