

Con. 5175-09.

B.E. (IT) Sem VII (CR)
 Mobile Computing
 (3 Hours)

SP-6672

[Total Marks : 100

14/12/09

- N.B.:** (1) Question No. 1 is **compulsory**.
 (2) Attempt any **four** from remaining **six**.
 (3) **Support** your answer with **diagrams**.
 (4) **Figures** to the **right** indicate **full** marks.
 (5) **All** question carry **equal** marks.

1. (a) What are the reasons for delays in a GSM system for packet data traffic ? Distinguish between circuit switched and packet oriented transmission. 10
- (b) Compare UMTS DVB and DAB with at least four points. 5
- (c) How does IEEE 802.11 solve the hidden terminal problem ? 5
2. (a) Explain Bluetooth protocol stack with neat diagram. 10
- (b) What do you understand by QOS in Mobile network ? Explain parameters which determine the QOS ? 10
3. (a) Explain HIPERLAN 2 basic structure and Handover scenario. 10
- (b) Discuss some routing protocols and strategies suitable for adhoc mobile networks. 10
4. (a) Explain GPRS architecture reference model and show the protocol architecture of transmission plane for GPRS. 10
- (b) Explain Power management in IEEE 802.11 infrastructure networks and adhoc networks. 10
5. (a) Draw the block diagram of FHSS Transmitter and Receiver Differentiate between Slow Frequency Hopping and Fast Frequency Hopping. 10
- (b) Explain system architecture of UMTS. 10
6. (a) Discuss various types of handover and explain the management. 10
- (b) Explain various types of Handover and explain the management. 10
7. Write short notes on any **two** of the following :— 20
 - (1) WTA logical architecture
 - (2) CDMA
 - (3) Mobile and Wireless devices.