

Con. 5848-09.

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

SP-6575

31/12/09

[Total Marks : 100

10.30 to 1.30

Lib

N.B. : (1) Attempt any five questions out of given seven questions.
(2) Assume suitable data wherever required.

1. (a) What is handover in GSM ? What are reasons to do so ? What are their problems ? 10
- (b) What do you understand by WLAN ? Compare infrared transmission and RF transmission. 10
2. (a) What is IEEE standard 802.11 ? Why its PHY layer is subdivided ? What is HYPERLAN ? 10
- (b) What are key features of GSM, DECT and TETRA ? What are its advantages and disadvantages ? 10
3. (a) Explain space, time, frequency and code multiplexing in wireless network. 10
- (b) What do you understand by QOS in mobile network ? Explain the parameters which determine the QOS ? 10
4. (a) What is motivation for a specialized MAC ? What is Hidden and exposed terminals ? What is near and far terminals ? 10
- (b) Compare Iridium, Globstar, ICO and Teledesic. 10
5. (a) Explain Digital Video Broadcasting. 10
- (b) Explain the errors in a wireless network, which degrade TCP performance. Briefly explain how TCP snooping can improve this situation. 10
6. (a) Explain architecture of wireless application protocol. 10
- (b) Explain 'Bluetooth Protocol Stack'. 10
7. Write short notes on any two :- 20
 - (a) Mobile IP
 - (b) WML
 - (c) UMTS.