

(Library)

mobile computing

Con. 2732-07.

(REVISED COURSE)

ND-923

(3 Hours)

[Total Marks : 100]

- N.B. :** (1) Question No. 1 is **compulsory**
 (2) Attempt any **four** out of remaining **six** questions.
 (3) **All** questions carry **equal** marks.

1. (a) Explain the various wideband modulation techniques employed in cellular /mobile technologies. [10]
 (b) Discuss various types of Handover & explain their management. [10]
2. (a) Explain 'Bluetooth protocol Stack' with neat diagram. [10]
 (b) Explain how high bandwidth internet access is achieved using DVB. [10]
3. (a) Discuss MAC protocol for IEEE 802.11. [10]
 (b) Write detailed notes on indirect TCP(I-TCP)- including its merits & demerits over snooping TCP & mobile TCP. [10]
4. (a) Discuss some of the routing protocol & strategies suitable for ad-hoc mobile wireless network. [10]
 (b) Compare Iridium, Globalstar, ICO & Teledesic. [10]
5. (a) Draw block diagram of FHSS transmitter & receiver. Differentiate between slow frequency & fast frequency hopping. [10]
 (b) Elaborate on security handling in wireless /mobile network. [10]
6. (a) What do you understand QoS in mobile network? Explain the parameter which determines QoS. [10]
 (b) Explain DECT system architecture reference model & protocol architecture. [10]
7. Write short notes on (any two) :- [20]
 - (a) GSM
 - (b) IPv6 in mobile communication
 - (c) Architecture & protocol supported by WAP
 - (d) CDMA.