

CON/5280-05.

[REVISED COURSE]

PR-7760

(3 Hours)

[Total Marks : 100

- N.B. : (1) Question No.1 is compulsory.
(2) Attempt any four questions out of remaining six questions.
(3) Marks to the right indicate full marks.
(4) Make suitable assumptions wherever necessary and clearly justify them.

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) Write short notes on :
(i) Near and far terminals. 5
(ii) Hidden and exposed terminals. 5
(b) Explain DECT system architecture reference model and protocol architecture. 10
3. (a) Compare Iridium, Globstar, ICO, Teledesic. 10
(b) Explain Digital Video Broadcasting. 10
4. (a) Compare IEEE 802.11 a,b,g. 10
(b) Explain Power Management in IEEE 802.11 infrastructure networks and adhoc networks. 10
5. (a) Explain WATM reference model with several access scenarios. 10
(b) Explain Hiper LAN2 basic structure and handover scenarios. 10
6. (a) List the entities of mobile IP and describe IP packet delivery to and from the Mobile Node. 10
(b) How and why does I-TCP isolate problems on the wireless link ? What are the drawbacks of this solution. 10
7. Write notes on any two :
(a) WTA Logical Architecture. 10
(b) Wireless datagram protocol. 10
(c) Indirect TCP, mobile TCP and snooping TCP. 10