

Con/5089-07.

(REVISED COURSE)

CD-7128

(3 Hours)

[Total Marks : 100

N. B. (1) Question No. 1 is compulsory.

(2) Attempt ant four questions out of remaining six questions.(3) Make suitable assumptions wherever necessary and clearly justify them.

1. (a) What advantages does the use of IPv6 offer mobility? [06]
- (b) Explain packet flow if two mobile node communicate? [06]
- (c) What do you understand by QoS in Mobile network? Explain the parameters which determine the QoS? [08]
2. (a) Explain Space, Time, Frequency and Code multiplexing in Wireless network? [10]
- (b) What are reasons for delay in GSM System for packet data traffic? Draw and Explain the protocol architectures of GSM? [10]
3. (a) Explain the various wideband modulation techniques employed in cellular /mobile technologies? [10]
- (b) Explain WATM reference model with several access scenarios. [10]
4. (a) Discuss different types orbits with their characteristics, application, pros & cons. [10]
- (b) Explain IEEE802.11 MAC packet structure .Also explain various field in frame control of MAC? [10]
5. (a) Compare Digital Audio Broadcasting with Digital Video Broadcasting? [10]
- (b) Explain various handover mechanisms in Cellular System. [10]
6. (a) Explain the error in wireless network, which degrade TCP performance and how TCP snooping can improve this situation? [10]
- (b) Explain how tunneling work for mobile IP using IP-in-IP, minimal & generic routing encapsulation respectively. Discuss pros & cons of these three methods. [10]
7. Write Short notes on (any two) [20]
 - (a) WML
 - (b) CDMA
 - (c) UMTS.