

(REVISED COURSE)

(3 Hours)

[Total Marks : 100

N.B. : (1) Question No. 1 is **compulsory**.(2) Attempt any **four** questions from remaining **six** questions.(3) **Figures** to the **right** indicate **full** marks.(4) Draw diagram wherever **necessary**.

1. (a) Explain signaling protocol architecture of a GSM system. 10
 (b) Discuss various types of handover and explain their management. 10
2. (a) Show the typical satellite system for Global Mobile telecommunication and describe the basic applications for satellite communication. 10
 (b) Explain power management in IEEE 802.11 infrastructure network and Adhoc network. 10
3. (a) Explain the need of spreading the spectrum. Explain different types of spreading the spectrum. 10
 (b) Explain digital video broadcasting. 10
4. (a) Compare IEEE 802.11 a.b.g. 10
 (b) What advantages does the use of IPV6 offer for mobility ? What are the entities of mobile IP now ? 10
5. (a) Explain GPRS architecture reference model and show the protocol architecture of the transmission Plane for GPRS. 10
 (b) Explain architecture and protocol supported by WAP. 10
6. (a) Why QOS is so important in WATM network ? What are the different types of QOS should WATM network support ? 10
 (b) Explain what is mean by Tunneling and Encapsulation. How it works in IP-in-IP, minimal, and generic routing encapsulation ? Show schematic. 10
7. Write notes on any **(two)** :- 20
 - (a) Bluetooth
 - (b) CDMA
 - (c) WTA logical architecture
 - (d) UMTS basic architecture and frame structure for UMTS FDD mode.