Roll No. | | | | | | | | | | | | Total No. of Pages : 01

Total No. of Questions : 08

Ph.D in Faculty of Engineering (ECE/ME)

ADVANCE COMMUNICATION SYSTEM

M.Code : 77352

Time : 3 Hrs. Max. Marks : 100

INSTRUCTIONS TO CANDIDATES :

1. Attempt any FIVE questions out of EIGHT questions.
2. Each question carry TWENTY marks.

Q1. Discuss in detail about BPSK and QPSK digital modulation techniques. Also discuss in detail about digital transmission and transmission impairments.

Q2. a) Explain about the WDM and TDM in detail.

b) Discuss the concept of link management protocols.

Q3. Discuss the telecommunication infrastructure in detail. Also explain about the SDH in detail.

Q4. Explain about the basic transmission theory of satellite communication in detail. Also discuss about the design of down links.

Q5. Discuss about the domestic satellite systems using small earth stations in detail. Also explain the concept of system noise temperature and G/T ratio.

Q6. Explain in detail about the GSM and GPRS in mobile communication. Also explain about the concept of Quality of service (QOS).

Q7. a) Discuss in detail about the multiple access with on board processing in satellite communication.

b) Explain about the delta modulation in digital communication in detail.

Q8. Discuss in detail about the various potential areas of research in advanced communication systems.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.