Total No. of Pages : 01

Total No. of Questions : 08

PHD (ECE) ADVANCED COMMUNICATION SYSTEMS

Time : 3 Hrs. INSTRUCTIONS TO CANDIDATES : Max. Marks : 100

- 1. Attempt any FIVE questions out of EIGHT questions.
- 2. Each question carries TWENTY marks.
- Q1. Explain in detail about the PCM and DPCM digital modulation techniques.
- Q2. a) Discuss about the analog and digital communication systems in detail.

b) Explain about the WDM and TDM in detail.

Q3. a) Discuss in detail about the telecommunication infrastructure.

b) Explain about the SONET and the concept of link management protocols in detail.

- Q4. Explain about the design of down links in detail. Also discuss in detail about the domestic satellite systems using small earth stations.
- Q5. Explain in detail about the FDMA, TDMA and CDMA multiple access techniques.
- Q6. a) What is the concept of Fading? Also explain about the switching techniques in detail.

b) Discuss about the transmission protocols in mobile communication in detail.

- Q7. Discuss in detail about the multiple access with on board processing in satellite communication. Also explain about the delta modulation in digital communication in detail.
- Q8. Explain about the various potential areas of research in advanced communication systems in detail.