Code :9A12302

R9

Time: 3 hours
Max Marks: 70

Answer any FIVE questions
All questions carry equal marks
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1. (a) Briefly describe broadcast and point to point computer network.

   (b) List and briefly describe the five basic data communications network topologies.

   (c) Define the following terms: Information capacity, bits, bit rate, band and M-ary encoding.

2. (a) Explain how waves are propagated down a metallic transmission line.

   (b) Briefly describe the construction of an optical filter cable.

3. (a) Define companding and explain analog and digital companding.

   (b) Describe wavelength-division multiplexing.

4. Explain about the satellite communication in microwave system.

5. (a) Discuss about the call progress tones and signals.

   (b) Explain the units of power measurements.

6. (a) Contrast the similarities and differences between two-way mobile radio and cellular telephone.

   (b) List and describe the three classifications of AMPS cellular telephone.

7. Clearly explain about error detection methods.

8. What are the two classifications for voice-band modem? Briefly explain each one.

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