

# BHARATI VIDYAPEETH INSTITUTE OF TECHNOLOGY

## QUESTION BANK

Unit Test-I (Shift:-I & II)

Program: - IF

Semester: - III

Course: - Data Communication (22322)

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### CHAPTER-1

#### 2 MARKS

1. Define the term Standard. State its two categories.
2. State the meaning of
  1. Amplitude
  2. Frequency
  3. Bandwidth
  4. Baud rate
3. Enlist any four Standard Organizations.
4. Define Baud rate and Bits per second
5. Define Analog signal with waveform
6. Define Digital signal with waveform

#### 4 MARKS

1. Compare Half Duplex and Full Duplex modes of communication based on following points.
  - i) Direction of communication
  - ii) Send/receive
  - iii) Performance
  - iv) Example
2. Compare Amplitude modulation, Frequency modulation and Phase modulation.(Any four points)
3. Explain process of ASK modulation with diagram.
4. Describe the characteristics of data communication.
5. Differentiate between Analog and Digital signal.

### CHAPTER-2

#### 2 MARKS

1. List any two advantages of Unguided Media.
2. Define Line of Sight propagation.

3. State any two advantages of Fiber Optic cable over Twisted pair and Co-axial Cable
4. Explain the purpose of Cladding in Optical fiber.
5. Coaxial cable is a two-wire transmission system. Explain the advantage of connecting the outer conductor to ground?
6. List types of wireless media.

#### **4 MARKS**

1. Describe the construction of Co-axial Cable with diagram
2. In satellite communications, different frequency bands are used for the uplink and the downlink. Discuss why this pattern occurs.
3. Explain the construction of Fiber optic Cable with diagram.
4. List and explain twisted pair cables.
5. Give the difference between twisted pair, Co axial and optical fiber cables.
6. List and explain different types of satellite.

#### **CHAPTER-3**

#### **2 MARKS**

1. Define Multiplexing. Enlist its types.
2. State any two advantages of FDM

#### **4 MARKS**

1. Compare FDM and TDM
2. Explain synchronous TDM
3. List and explain types of spread spectrum.
4. List and explain types of switching networks.