**Rajasthan Institute of Engineering & Technology, Jaipur.**

**Department of Computer Engineering**

**I / II Mid Term examination**

**SET B**

**Session: 2018-19**

**V Sem. Computer Engineering**

**Telecommunication Engineering Fundamentals, 5CS3A**

Time: 2 hrs. M.M.:20

**Instruction for students:**

1. No provision for supplementary answer book.

Q.1 Explain different types of line encoding schemes used for digital data signaling.

Or

Q.1 Compare and contrast between Synchronous and Asynchronous Communication.

Q.2 Compare and Contrast between Terrestrial and Satellite Microwave Communication.

Or

Q.2 Explain the different types of Error Detection Techniques used at Data Link Layer

Q.3 Give outline of the basic techniques used for Flow Control at Data Link Layer.

Or

Q.3 What is Meant by ARQ? Explain the following types of ARQ Techniques.

* 1. Stop and Wait ARQ
  2. Go-Back-N ARQ
  3. Selective Reject ARQ

Q.4 Explain OSI Reference model with brief outline of the functionalities of each of the layer.

Or

Q.4 Given a message M = 1010001101, P = 110101, illustrate the process to derive FCS.