## **CSE 303: Data Communication**

CT 2

## Marks – 20 Time – 25 Minutes

## **Each Question carries 10 marks**

1. A signal is carrying data in which two data element is encoded as one signal element. If the Signal rate (baud rate) is **10\*X** kbaud, what is the average value of the bit rate. Case factor, c = ½.

Here, X =last digit of your ID + 1

2. Suppose we want the following bits to be communicated.

Explain briefly for each case, if and how the following design considerations will affect our communication.

- a. Baseline wandering
- b. DC components
- c. Self-synchronization