**205NET**

**2nd semester 1439 /1440**

**Assignment # 5**

Q1) Calculate the value of the signal rate for each case in the following figure , if the data rate is 1 Kbps and c = 1/2.



Q2) Find the 8-bit data stream for the following digital signal



Differential Manchester schemes using the following data streams

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 0 |
|  |  |  |  |  |  |  |  |
| Unipolar |
|  |  |  |  |  |  |  |  |
| Differential Manchester |
|  |  |  |  |  |  |  |  |
| NRZ-L |
|  |  |  |  |  |  |  |  |
| Manchester |
|  |  |  |  |  |  |  |  |
| RZ |
|  |  |  |  |  |  |  |  |
| NRZ-I |
|  |  |  |  |  |  |  |  |