1(b)

Three tyy types of line coding:

1. Unipolar.

2. Polar.

3. Bi - polar.

Unipolar seems better to me. There are two types is in unipolar line coding or signalling.

1) Non return to zero → NRZ

2) Return to zero → RZ.

<u>Unipolar NRZ:</u>

a) It is simple.

b) A lesser bandwith is required.

<u>Unipolar RZ:</u>

a) The spectral line present at the symbol rate can be used as a clock.

Ans 1 (a)

D = 19

M = 11

Y = 1997

$(1911)_{10} = (0111\ 0111\ 0111)_2$

2 B 1 Q°: