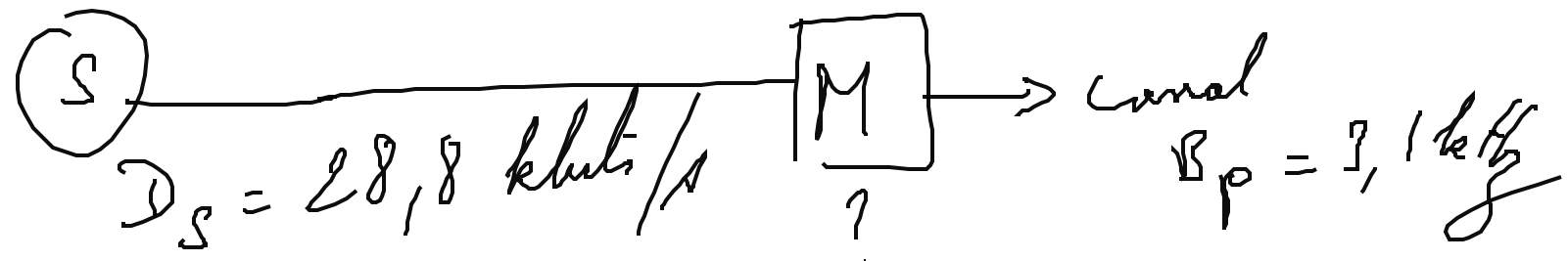


A.12



$$D_s = 28,8 \text{ kbits/s}$$

$$B_p = 3,1 \text{ kHz}$$

$$D_s = D_c \log_2 M$$

$$D_c = 2 B_{p_{\text{min}}}$$

$$D_s = 2 B_{p_{\text{min}}} \log_2 M$$

$$M = 2^5 = 32 \text{ symboles}$$

$$\log_2 M = \frac{28800}{2 \cdot 3100} = \frac{288}{62}$$

On arrondit à 5 bits/symbole = 4,5 bits/symbole

$$D_c = 2 \cdot B_{p_{\text{min}}} = 2 \times 3100 = 6200 \text{ bauds.}$$

$$D_s \text{ possible} = 6200 \times 5 = 31000 \text{ bits/s} > 28800$$

répond à la demande