Date:

M. Hasyam Abdellah P. 101191095 TT-43-11

$$\left(\frac{S}{N}\right)_{0} = 3\beta^{3}\left(\frac{S}{N}\right)_{0}$$

$$p. 200 = P1.4. \left(\frac{S}{N}\right)_{D}$$

$$\left(\frac{s}{N}\right)_{B} = \frac{10000}{91.4} = 30, 86 = 14,09 \text{ dB}$$

b. 
$$\left(\frac{S}{N}\right) = 3e^3 \left(\frac{S}{N}\right) = P$$

$$\left(\frac{S}{N}\right)_{s} = \frac{123,456}{31} = 123,456 \text{ kali}$$

$$\frac{\left(\frac{5}{N}\right)_{a_{3}}}{\left(\frac{5}{N}\right)_{a_{3}}} = \frac{5i}{k(T_{e} + T_{A}). BW_{16}} \rightarrow 5i = 123, 456 \times 1,38 \times 10^{-23} (5510 + 500).100 \times 100}{5i = 1,23 \times 10^{-12}}$$