

**REŠENJA ZADATAKA****1.**

$$i_B[\text{mA}] = 0, \text{ za } 0 \leq V_{CC} \leq 2,1\text{V} \text{ (} D\text{-OFF, } Q\text{-OFF)};$$

$$i_B[\text{mA}] = 0,485V_{CC}[\text{V}] - 1,019, \text{ za } 2,1\text{V} \leq V_{CC} \leq 4,826\text{V} \text{ (} D\text{-OFF, } Q\text{-zasićenje)};$$

$$i_B[\text{mA}] = -V_{CC}[\text{V}] + 6,15, \text{ za } 4,826\text{V} \leq V_{CC} \leq 5,7\text{V} \text{ (} D\text{-ON, } Q\text{-zasićenje)};$$

$$i_B[\text{mA}] = 0,124V_{CC}[\text{V}] - 0,26, \text{ za } 5,7\text{V} \leq V_{CC} \leq 12\text{V} \text{ (} D\text{-ON, } Q\text{-DAR)}.$$

**4. a)**  $I_{01} = 427,6\mu\text{A}; \quad I_{02} = 330\mu\text{A} .$

**b)**  $a = \frac{v_i}{v_u} = g_{m1}R_D g_{m2}R_P \approx 100.$

**c)**  $R_{ul} \rightarrow \infty; \quad R_{izl} = R_P = 5\text{k}\Omega .$