EIC0022 | THEORY OF COMPUTATION | 2018/2019 - 1st Semester

Preparation Activity PAo6 – Regular Languages

- 1. The regular languages are closed under homomorphism.
 - (a) Explain why.
 - (b) Consider that h(0) = ab; and $h(1) = \varepsilon$, and L is the language of regular expression $01^* + 10^*$. What is the language obtained by applying function h to L?
- 2. Using operations closed under regular languages, describe a way to prove that two regular languages A and B are equal (consider that the two languages can be expressed as regular expressions, NFAs, ε-NFAs or DFAs).