

Teori Bahasa dan Otomata
14 Desember 2021
120 minutes (Open Book)
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1. Construct CFG for the following languages
 - a. $L = \{a^n e^{n+1} b^{3m} c^p d^{m+2} \mid n, m, p > 0\}$ (20 points)
 - b. Write Parse tree and left derivation for “aaaaecccccccccccccccc” (10 points)
 - c. Construct PDA that accepts the set of strings from $(a+b+c+d+e)^*$ that satisfy L (25 points)
 - d. Simulate how the PDA can accept “aaeecccccccccccccccc”. (10 points)
2. Construct a PDA accepting the CFL $L = (\{S, A, B\}, \{a, b\}, S, P)$ where P is: (20 points)
3. Minimize the following DFA (15 points)

