Assignment 15

Automata & Theory of Computation

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1. Construct an npda that accepts the language generated by a grammar with productions

$$S \rightarrow aSSSab|\lambda$$
.

(१४॥ भाम)

$$\{(g_1, \lambda, 4) = \{(g_1, \lambda)\}$$

$$\delta(8, 6, \beta) = \frac{3}{3}(8, \lambda)$$

2. Construct a context-free grammar for the language accepted by the npda $M=(\big\{q_0,q_1\big\},\{a,b\},\{A,z\},\delta,q_0,z,\big\{q_1\big\}), \text{ with transitions}$

$$\frac{\delta (q_0, a, z) = \{ (q_0, Az) \},}{\delta (q_0, b, A) = \{ (q_0, AA) \},}$$

$$\frac{\delta (q_0, a, A) = \{ (q_1, \lambda) \}.}{\delta (q_0, a, A) = \{ (q_1, \lambda) \}.}$$

