

2. CFG:  $S \rightarrow 00/11/051/150/151/050/$

$\therefore$  PDA 转移函数:

a)  $\delta(q, \epsilon, I) = \{(q, 00), (q, 11), (q, 051), (q, 150), (q, 151), (q, 050)\}$

b)  $\delta(q, 0, 0) = \{(q, \epsilon)\}$   $\delta(q, 1, 1) = \{(q, \epsilon)\}$

$\therefore$  以空栈形式接受.

3.

$V = \{S, [qz_0q], [pxp], [qxq], [qxp], [p.z_0q]\}$

$[qz_0q] \rightarrow 1 [qxq] [qz_0q]$

$[qxq] \rightarrow 1 [qxq] [qxq]$

$[qxp] \rightarrow 0 [pxp]$

$[qz_0q] \rightarrow \epsilon$

$[pxp] \rightarrow 1$

$[p.z_0q] \rightarrow 0 [qz_0q]$

$\therefore S \rightarrow [qz_0q] \text{ ~~1 [qxq] [qz_0q]~~ } \text{ ~~1 [qxq] [qxq]~~ } \text{ ~~0 [pxp]~~ } \text{ ~~0 [qz_0q]~~ }$

