

Nama : Hariando Muthi

NIM : 120190009

Kelas : RA

UAS TBFO

①. a). Berikan 1 contoh string diterima dan ditolak

•) Yang diterima : 111000

$S \rightarrow x1x1x1x \rightarrow 1x1x1x \rightarrow 11x1x \rightarrow 111x \rightarrow 1110x \rightarrow 11100x$
 $\rightarrow 111000x \rightarrow 111000 \epsilon \rightarrow 111000$.) diterima

•) Yang ditolak : 010001

$S \rightarrow x1x1x1x \rightarrow 0x1x1x1x \rightarrow 01x1x1x \rightarrow 010x1x1x$
 $\rightarrow 0100x1x1x \rightarrow 01000x1x1x \rightarrow 010001x1x \rightarrow 0100011x$

Pasti string
010001 ditolak,
karena saat string diminta sudah
selesai tetapi prosesnya belum
selesai.

b). $PDA = (q_0, \{0,1\}, \{0,1,x\}, \delta, S, \emptyset)$

$\delta(q_0, \epsilon, S) = \{ (q_0, x1x1x1x) \}$

$\delta(q_0, \epsilon, x) = \{ (q_0, 0x), (q_0, 1x), (q_0, \epsilon) \}$

$\delta(q_0, 0, 0) = \{ (q_0, \epsilon) \}$

$\delta(q_0, 1, 1) = \{ (q_0, \epsilon) \}$