

19L-1196 Section 5c

# Theory of automata (Ms. Sobia tarig)

Q 4.3

$$S \rightarrow a S b / b S a / a S \epsilon / b S b / \Lambda$$

$$A \rightarrow aa / bb$$

Q 4.10/d

$$S \rightarrow a S b / a S b b / \Lambda$$

Q 4.10/e

$$S \rightarrow a S b / a S b b / a S / \Lambda$$

Q 4.28

$$S \rightarrow a b A / b B / a b a$$

$$A \rightarrow b / a B / b A$$

$$B \rightarrow a B / a A$$

Some output of L

$$L = \{ a b a, b a b, b a a b, a b b, \dots \}$$

$$\text{Regular exp} = (ab + b)(a + b)^*(a + b)$$

