BRAC University

Dept. of Computer Science and Engineering

Fall 2024

CSE331-11

QUIZ - 1(A)

Time: 25 minutes Marks: 20 Name: ID: Section: 1. Construct DFAs that recognize the following languages. a. $L = \{ w \in \{a,b\}^* : w \text{ ends with } n \text{ number of a's, where } n \text{ is a multiple of three} \}$ 4 b. $L = \{ w \in \{0,1\}^* : \text{ the count of 0 in w is one less than the multiple of 4} \}$ 6 2. Give regular expressions for the following languages. a. $L = \{ w \in \{0,1\}^* : w \text{ contains exactly two '01's as a substring} \}$ 4 b. $L = \{ w \in \{a,b\}^* : w \text{ starts with "bab"} \}$

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