BRAC University

Dept. of Computer Science and Engineering

Summer 2024

CSE331-04

QUIZ - 4

Time: 20 minutes

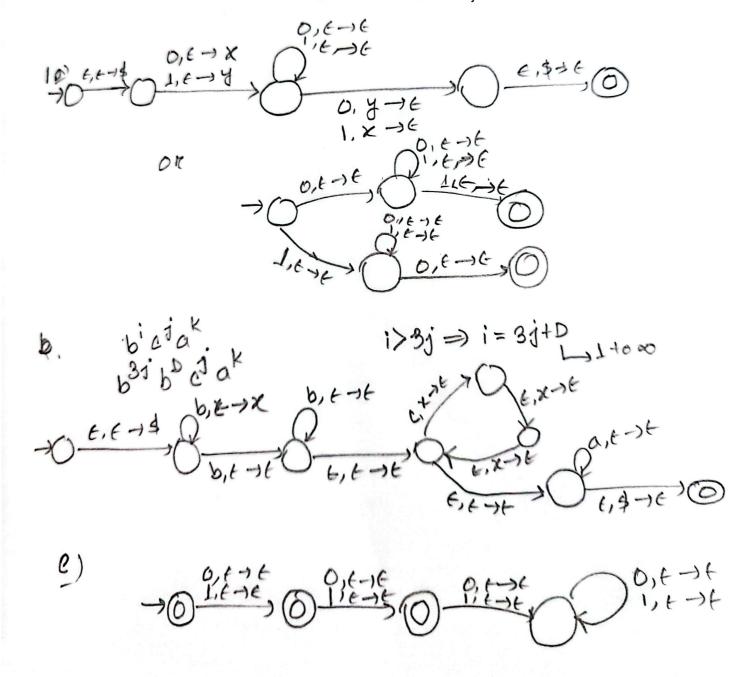
Marks: 30

Name:

ID:

Section:

- 1. Construct PDA for the following languages.[3*10=30]
 - a. $L = \{ w \in \{0, 1\}^* : w \text{ starts and ends with different symbols} \}$
 - b. $L = \{ w \in \{a, b, c\}^* : w = b^i c^j a^k, \text{ where } i > 3j, j,k \ge 0 \}$
 - c. $L = \{ w \in \{0,1\}^* : \text{ the length of } w \text{ is at most two.} \}$



BRAC University

Dept. of Computer Science and Engineering

Summer 2024 CSE331-06

QUIZ - 4

Time: 20 minutes

Marks: 30

Name:

ID:

Section:

1. Construct PDA for the following languages.[3*10=30]

a. $L = \{ w \in \{0, 1\}^*: w \text{ starts with } 0 \text{ and } 0 \text{ and } 1 \text{ alternates in } w \}$

b. L = { $w \in \{a, b, c\}^*$: $w = c^i a^j b^k$, where $i > 2k, j, k \ge 0$ }

c. $L = \{ w \in \{0,1\}^* : \text{ the count of 0's in } w \text{ is two.} \}$

1. a)

$$0, t \to t$$
 $0, t \to t$
 $0, t \to t$