

CS402 QUIZ NO.3 BY IQRA AZHAR

CS402

Quiz no 3

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SOLVED BY

IQRA AZHAR

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1. Let FA1 accepts many strings and FA2 accepts no string, then $FA1 + FA2$ will be equal to:

- (A) $(FA2)^*$
- (B) FA2
- (C) $FA2 - FA1$
- (D) FA1 Correct

2. Every NFA can be considered to be a ----- as well, but the converse may not be true:

- (A) TG
- (B) FA Correct
- (C) PDA
- (D) GTG

3. Which of the following is used to delay the transmission of signal along the wire by one step (clock pulse)?

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- (A) Holdup box
- (B) Slow box
- (C) Reduce box
- (D) Delay box Correct

4. Strings x, y, z belong to Σ such that $xz \in L$ but $yz \notin L$ where $L \subseteq \Sigma$ are:**

- (A) Indistinguishable
- (B) Distinguishable Correct
- (C) Undetermined
- (D) Both distinguishable and indistinguishable

5. How many new states are introduced while developing NFA for the closure of an FA?

- (A) Four
- (B) One
- (C) Three

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- (D) Two Correct

6. Let FA3 be an FA corresponding to FA1FA2, then the final state of FA3 must correspond to the final state of:

- (A) FA1 or FA2
- (B) FA1 and FA2
- (C) FA1 only
- (D) FA2 only Correct

7. If new $A = 1 \text{ NAND } (1 \text{ AND } 1)$, then what will be the value of new A?

- (A) 0 Correct
- (B) 1
- (C) 10
- (D) 01

8. In Moore machine the output depends on:

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- (A) Type of input
- (B) Nothing
- (C) Present state and present input
- (D) Only present state Correct

9. If L_1 and L_2 are two regular languages, then $L_1 \cap L_2$ is:

- (A) Irregular
- (B) Infinite
- (C) Finite
- (D) Regular Correct

10. A loop at a state is supposed to be ----- transition while converting Moore machine into an equivalent Mealy machine:

- (A) Incoming
- (B) Both incoming and outgoing

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- (C) Outgoing Correct
- (D) Complex

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Allah Hafiz

