

THEORY OF COMPUTATION TEST I

Number of Questions: 25

Section Marks: 30

Directions for questions 1 to 25: Select the correct alternative from the given choices.

1. Which of the following is FALSE?

- I: Any regular language is context free language.
- II: There exists a DPDA (Deterministic Push Down Automata) for every CFL.

- (A) I only (B) II only
(C) Both I and II (D) Neither I nor II

2. Which of the following figure correctly specifies the relation between regular languages (R), deterministic CFLs (DC) and CFLs (C)?



- (C) If $L_1 \subseteq L_2$ then $L_1^* \subseteq L_2^*$
- (D) If L_1 is finite then it is regular.

7. Which of the following strings are generated by the regular expression,

$$R = (abc)^*(a + b)ba?$$

- (i) ϵ (ii) aba
- (iii) $ababba$ (iv) $abababa$
- (A) (i), (iii) (B) (ii), (iii)
- (C) (ii), (iv) (D) (i), (iv)

8. The regular expression $R = (abc)^*(a + b) \cdot \phi$ is equivalent to

- (A) $(abc)^*(a + b)ba$ (B) $(abc)^*ba$
- (C) ba (D) ϕ

9. Which of the following identity is FALSE for regular expressions?

- (i) $R + R = R$ (ii) $RR^* = R^*R$
- (iii) $\epsilon R = R\epsilon = R$

- (A) (i), (ii), (iii)

- (B) (i) only

Theory Of Computation Exam Questions And Answers

RJ Alexander



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