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Computer Science Fundamentals - Algorithms

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Computer Science Fundamentals

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Question 1:

Which of the following pairs have DIFFERENT expressive power?

A) Deterministic finite automata (DFA) and Non-Deterministic finite automata(NFA)

B) Deterministic push down automata (DPDA) and Non-deterministic pushdown automata

C) Deterministic single-tape Turing machine and Non-deterministic single-tape Turing Machine

D) Single-tape Turing machine and multi-tape Turing machine

[ANSWER] Answer & Explanation:

DPDA cannot handle languages or grammars with ambi

Question 2:

Which of the following denotes Chomskian hiearchy?

A) REG âŠ, CFL âŠ, CSL âŠ, type0

B) CFL âŠ, REG âŠ, type0 âŠ, CSL

C) CSL âŠ, type0 âŠ, REG âŠ, CFL

D) CSL âŠ, CFL âŠ, REG âŠ, type0

[ANSWER] Answer & Explanation:

No Explanation

Question 3:

Which of the following problem is undecidable?

A) membership problem for CFL

B) membership problem for regular sets

C) membership problem for CSL

D) membership problem for type 0 languages

[ANSWER] Answer & Explanation:

No Explanation

Question 4:

Which one of the following statement is FALSE?

A) context-free languages are closed under union

B) context-free languages are closed under concatenation

C) context-free languages are closed under intersection

D) context-free languages are closed under Kleene closure

[ANSWER] Answer & Explanation:

No Explanation

Question 5:

Consider a language L for which there exists a Turing machine (TM), T, that accepts every word in L and either rejects or loops for every word that is not in L. The language L is

A) NP hard

B) NP complete

C) recursive

D) recursively enumerable

[ANSWER] Answer & Explanation:

No Explanation

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