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Theory of automata and formal languages mcqs with answers pdf

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It sometimes fails to recognize regular grammar. d. All of the mentioned It can't remember arbitrary large amount of information. Question 4: How Many DFA's Exits With Two States Over Input Alphabet {0,1} ? a. 16 b. 26 c. 32 d. 64 Question 5: Regular Expression For All Strings Starts With Ab And Ends With Bba Is. a. aba*b*bba b. ab(ab)*bba c. ab(a+b)*bba d. All of the mentioned Question 6: Number Of Final State Require To Accept ϕ In Minimal Finite Automata. a. 1 b. 2 c. 3 d. None of the mentioned Question 7: Finite Automata Requires Minimum _____ Number Of Stacks. a. 1 b. 0 c. 2 d. None of the mentioned Question 8: Language Of Finite Automata Is. a. Type 0 b. Type 1 c. Type 2 d. Type 3 Question 9: Languages Of A Automata Is? a. If it is accepted by automata b. If it halts c. If automata touch final state in its life time d. All language are language of automata If it is accepted by automata Question 10: String X Is Accepted By Finite Automata If? a. $\delta^*(q,x)$ E A b. $\delta(q,x)$ E A c. $\delta^*(Q0,x)$ E A d. $\delta(Q0,x)$ E A Question 11: $\delta^*(q,ya)$ Is Equivalent To? a. $\delta(((q,y),a)$ b. $\delta(\delta^*(q,y),a)$ c. $\delta(q,ya)$ d. independent from δ notation Question 12: Extended Transition Function Is? a. $Q^* \Sigma^+ \rightarrow Q$ b. $Q^* \Sigma \rightarrow Q$ c. $Q^* \Sigma^+ \rightarrow \Sigma$ d. $Q^* \Sigma \rightarrow \Sigma$ Question 13: Number Of States Require To Accept String Ends With 10. a. 3 b. 2 c. 1 d. can't be represented. Question 14: Transition Function Maps? a. $\Sigma^* Q \rightarrow \Sigma$ b. $Q^* Q \rightarrow \Sigma$ c. $\Sigma^* \Sigma \rightarrow Q$ d. $Q^* \Sigma \rightarrow Q$ Question 15: There Are _____ Tuples In Finite State Machine. a. 4 b. 5 c. 6 d. Unlimited These above questions are being explained according to the way out that is being made direct approach with the questions and their association through the final approach of Theory Of Automata And Formal Languages MCQs With Answers Formal Languages And Automation Theory MCQs Set I Q1. Finite state machine is _____ tuple machine. a) 4 b) 5 ✓ c) 6 d) unlimited Answer is b) 5 Explanation : A finite-state machine is formally defined as a 5-tuple (Q, I, Z, θ , W) such that: Q = finite set of states. I = finite set of input symbols. Q2. Which of the following is a not a part of 5-tuple finite automata? a) Input alphabet b) Transition function c) Output Alphabet ✓ d) Initial State Answer is c) Output Alphabet Explanation : A FA can be represented as FA= (Q, Σ , δ , q0, F) where Q=Finite Set of States, Σ =Finite Input Alphabet, δ =Transition Function, q0=Initial State, F=Final/Acceptance State). Q3. Given: Σ = {a, b} L= { $x\epsilon \Sigma^*$ |x is a string combination} Σ 4 represents which among the following? a) {aa, ab, ba, bb} b) {aaaa, abab, ϵ , abaa, aabb} ✓ c) {aaa, aab, aba, bbb} d) All of the mentioned Answer is b) {aaaa, abab, ϵ , abaa, aabb} Explanation : Σ^* represents any combination of the given set while Σx represents the set of combinations with length x where $x \in I$. Q4. The following grammar G = (N, T, P, S) N = {S, A, B} T = {a, b, c} P : S ? aSa S ? aAa A ? bB B ? bB B ? c is a) is type 3 b) is type 2 but not type 3 ✓ c) is type 1 but not type 2 d) is type 0 but not type 1 Answer is b) is type 2 but not type 3 Explanation : For explanation Join the discussion below Q5. Let L denotes the language generated by the grammar S \rightarrow OSO/O0. Which of the following is true? (GATE CS 2000) a) L = O b) L is regular but not O ✓ c) L is context free but not regular d) L is not context free Answer is b) L is regular but not O Explanation : Please note that grammar itself is not regular but language L is regular as L can be represented using a regular grammar, for example S \rightarrow S00/O0. Q6. Let S and T be language over Σ (a,b) represented by the regular expressions (a+b)* and (a+b)*, respectively. Which of the following is true? (GATE CS 2000) a) ScT (S is a subset of T) b) S=T ✓ c) TcS (T is a subset of S) d) SnT= \emptyset Answer is b) S=T Explanation : For explanation Join the discussion below Q7. Assume the R is a relation on a set A, aRb is partially ordered such that a and b are _____ a) transitive b) reflexive c) symmetric d) transitive and reflexive ✓ Answer is d) transitive and reflexive Explanation : A partially ordered relation refers to one which is Reflexive, Transitive and Antisymmetric. Q8. The minimum number of states required to recognize an octal number divisible by 3 are/is a) 1 b) 3 ✓ c) 5 d) 7 Answer is b) 3 Explanation : According to the question, minimum of 3 states are required to recognize an octal number divisible by 3. Q9. Consider the following two statements: S1: { $0^n 2^n$ |n \geq 1} is a regular language S2: { $0^m 0^n 0^*(m+n)$ | m \geq 1 and n \geq 2} is a regular language Which of the following statements is correct? (GATE CS 2001) a) Only S1 is correct b) Only S2 is correct c) Both S1 and S2 are correct ✓ d) None of S1 and S2 is correct Answer is c) Both S1 and S2 are correct Explanation : S1 can be written as (00) n where n \geq 1. And S2 can be written as (00) $^*(m+n)$ where m \geq 2 and n \geq 1. S2 can be further reduced to (00) *x where x \geq 3. We can easily write regular grammars for both S1 and S2. G1 \rightarrow G100/O0 (For S1) G2 \rightarrow G200/O00000 (For S2)

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