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CS370

Multiple Choices 3

1. When was the Automata Studies published?
2. 1955
3. 1956
4. 1957
5. 1958
6. 1959

Answer: B, by definition in class

1. When was Chromsky Hierarchy published?
2. 1963
3. 1964
4. 1965
5. 1966
6. 1967

Answer: C, by definition in class

1. What is Kleene Star \*?
2. A star in the sky name Kleene
3. 0 or more repetitions of the pattern
4. A place in United State
5. Both A and B
6. None of the Above

Answer: B, by definition that we learned in class

1. How many characters are in ASCII?
2. 2^5
3. 2^6
4. 2^7
5. 2^8
6. 2^9

Answer: D, ASCII has a total amount of 256 characters which is the same as 2^8

1. How many characters are in ebcdic?
2. 2^5
3. 2^6
4. 2^7
5. 2^8
6. 2^9

Answer: C, ebcdic has a total of 8 bits but 1 is the parity bit so it has a total amount of 128 characters which is the same as 2^7.

1. How many characters are in Unicode?
2. 2^14
3. 2^15
4. 2^16
5. 2^17
6. 2^18

Answer: C, Unicode has a total amount of 2^16 unique characters for international language use.

1. What is a Power Set?
2. All possible subset
3. Multiple the element in the set to a certain power
4. Multiple the cardinality of the set to a certain power
5. Both A and B
6. None of the Above

Answer: A, power set is another word for all the possible subset

1. What is a language?
2. English
3. Chinese
4. Set of words
5. Both A and B
6. None of the Above

Answer: C, in computer science theory, language means the set of words

1. What is A concatenate B?
2. AB
3. BA
4. Ab
5. Both A and B
6. None of the Above

Answer: A, concatenate means putting two strings together in the specify order

1. What is the level 3 of the Chomsky Hierarchy?
2. Regular Expression
3. Context-Free
4. Context-Sensitive
5. Both A and B
6. None of the Above

Answer: A, by the Chomsky Hierarchy chart in class

1. What is the level 2 of Chomsky Hierarchy?
2. Regular Expression
3. Context-Free
4. Context-Sensitive
5. Both A and B
6. None of the Above

Answer: B, by the Chomsky Hierarchy chart in class

1. What is the level 1 of Chomsky Hierarchy?
2. Regular Expression
3. Context-Free
4. Context-Sensitive
5. Both A and B
6. None of the Above

Answer: C, by the Chomsky Hierarchy chart in class

1. What is the level 0 of Chomsky Hierarchy?
2. Regular Expression
3. Context-Free
4. Context-Sensitive
5. Both A and B
6. None of the Above

Answer: E, by the Chomsky Hierarchy chart in class level 0 is the recursively enumerable

1. What string can be generate by regular expression A\*?
2. AA
3. AAAAAA
4. AAAB
5. Both A and B
6. None of the Above

Answer: D, Kleene star of A means 0 or more repetition of A

1. What string cannot be generate by regular expression A\*?
2. AA
3. AAAAAA
4. AAAB
5. Both A and B
6. None of the Above

Answer: C, Kleene star of A means 0 or more repetition of A. There is no B in the regular expression