

1. A regular expression (RE) is either.  
(Hint: Choose Multiple answers)

- ☐ A Empty
- ☐ B A Single Character
- ☐ C A regular expression enclosed in parentheses
- ☐ D Two or more concatenated regular expressions
- ☐ E Two or more regular expressions separated by or operator (|).
- ☐ F A regular expressions followed by the closure operator (\*).

2. Pattern descriptions made up of characters that serve as operands for three fundamental operations. Choice them from following?

- ☐ A Concatenation
- ☐ B Or
- ☐ C Closure
- ☐ D Parentheses

3.  $A | E | I | O | A$  specifies the language  $\{A, E, I, O, U\}$ .

Is the above statement is true or false ?

- ☐ A True
- ☐ B False

4. Concatenation has lower precedence than or.

Is the above statement is true or false ?

- ☐ A True
- ☐ B False

5.  $C(A C | B)E$  specifies the language  $\{C A C D, C B D\}$ .

Is above statement is true or false ?

- ☐ A True
- ☐ B False

6. Substring search is implemented via DFA simulation.

Is the above statement is valid or not ?

- ☐ A True
- ☐ B False

7. Concatenation has higher precedence than or.

Is the above statement is true or false ?

- ☐ A True
- ☐ B False

8. To represent fixed length symbols with variable length codes, which algorithm we can use ?

- ☐ A Huffman
- ☐ B LZW
- ☐ C Burrows Wheeler
- ☐ D Run Length