# 4 Lecture - CS402

## **Important Mcqs**

1. Which of the following regular expressions is equivalent to "a|b|c"?

- A) "abc"
- B) "[a-c]"
- C) "a+b+c+"
- D) "(a|b|c)"

Answer: D) "(a|b|c)"

Which of the following regular expressions is equivalent to "ab(a|b)"?

A) "ab(a+b)" B) "a(ba|bb)" C) "(a|b)ab" D) "a(ba|bb)" Answer: A) "ab(a+b)\*"

Which of the following regular expressions is equivalent to "ab"?

A) "(a+b)" B) "(ab)" C) "(a|b)" D) "(a|b\*)" Answer: C) "(a|b)\*"

Which of the following regular expressions is equivalent to "a(b|c)"?

A) "a|b|c" B) "a(bc)" C) "a+(b|c)" D) "(a+b+c)" Answer: B) "a(bc)\*"

Which of the following regular expressions is equivalent to "(ab)c"?

A) "abc" B) "(a|b)c" C) "ab+c" D) "a(b+c)\*c" Answer: A) "abc\*"

### Which of the following regular expressions is equivalent to "a(b|c)d|aef"?

A) "a(b|c|ef)d" B) "a(b|c)(d|ef)" C) "(ab|ac)d|aef" D) "(ab|ac)(d|ef)" Answer: C) "(ab|ac)d|aef"

Which of the following regular expressions is equivalent to "a+b+c+"? A) "a|b|c"

B) "(a+b+c)" C) "(a+b)(b+c)(c+a)" D) "(abc)+" Answer: B) "(a+b+c)\*"

#### Which of the following regular expressions is equivalent to "(ab|cd)+e"?

A) "(a+b+c+d)e" B) "(a+b)(c+d)\*e" C) "a(b+e)|(c+d)e" D) "(ab+cd)e+" Answer: C) "a(b+e)|(c+d)e"

#### Which of the following regular expressions is equivalent to "a(b+c)d"?

A) "a(b|c)+d" B) "a(b+c)d+" C) "(ab|ac)d" D) "a(b+d)(c+d)" Answer: A) "a(b|c)+d"

#### Which of the following regular expressions is equivalent to "a(b+c)|d(e+f)"?

A) "(ab+ac)|(de+df)" B) "a(b+c)d|d(e+f)" C) "ab+def\*" D) "(a+b)(c+d)(e+f)\*" Answer: B) "a(b+c)d|d(e+f)"