# 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)"