

Regular Expressions

Total points 10

1. Which of the following regular expressions would extract 'uct.ac.za' from this string using re.findall?

1 point

```
1 From stephen.marquard@uct.ac.za Sat Jan 5 09:14:16 2008
```

- ☐ @\S+
- ☒ @(\S+)
- ☐ F.+:
- ☐ ..@\S+..

2. Which of the following is the way we match the "start of a line" in a regular expression?

1 point

- ☒ ^
- ☐ str.startswith()
- ☐ \linestart
- ☐ String.startsWith()
- ☐ variable[0:1]

3. What would the following mean in a regular expression? [a-z0-9]

1 point

- ☐ Match anything but a lowercase letter or digit
- ☐ Match any text that is surrounded by square braces
- ☐ Match an entire line as long as it is lowercase letters or digits
- ☒ Match a lowercase letter or a digit
- ☐ Match any number of lowercase letters followed by any number of digits

4. What is the type of the return value of the re.findall() method?

1 point

- ☐ An integer
- ☐ A boolean
- ☐ A string
- ☒ A list of strings
- ☐ A single character

5. What is the "wild card" character in a regular expression (i.e., the character that matches any character)?

1 point

- ☐ *
- ☐ \$
- ☒ .
- ☐ +
- ☐ ^
- ☐ ?

6. What is the difference between the "+" and "*" character in regular expressions?

1 point

- ☒ The "+" matches at least one character and the "*" matches zero or more characters
- ☐ The "+" matches upper case characters and the "*" matches lowercase characters

- ☐ The "+" matches the beginning of a line and the "*" matches the end of a line
- ☐ The "+" matches the actual plus character and the "*" matches any character
- ☐ The "+" indicates "start of extraction" and the "*" indicates the "end of extraction"

7. What does the "[0-9]+" match in a regular expression?

1 point

- ☐ Several digits followed by a plus sign
- ☐ Any mathematical expression
- ☐ Any number of digits at the beginning of a line
- ☐ Zero or more digits
- ☒ One or more digits

8. What does the following Python sequence print out?

1 point

```
1 x = 'From: Using the : character'
2 y = re.findall('^F.+:', x)
3 print(y)
```

- ☐ :
- ☐ ['From:']
- ☐ ^F.+:
- ☒ ['From: Using the :']
- ☐ From:

9. What character do you add to the "+" or "*" to indicate that the match is to be done in a non-greedy manner?

1 point

- ☐ ^
- ☒ ?
- ☐ ++
- ☐ **
- ☐ \$
- ☐ \g

10. Given the following line of text:

1 point

```
1 From stephen.marquard@uct.ac.za Sat Jan 5 09:14:16 2008
```


What would the regular expression '\S+?@\S+' match?

- ☐ \@\\
- ☐ marquard@uct
- ☐ d@uct.ac.za
- ☒ stephen.marquard@uct.ac.za
- ☐ From

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