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
   ```

   ○ F.+:

   ● @(\S+)

   ○ @\S+

   ○ ..@\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 any number of lowercase letters followed by any number of digits

   ○ Match an entire line as long as it is lowercase letters or digits

   ● Match a lowercase letter or a digit

   ○ Match anything but a lowercase letter or digit

   ○ Match any text that is surrounded by square braces

4. What is the type of the return value of the re.findall() method?   `1 point`

   ○ An integer

   ○ A single character

   ○ A boolean

   ○ A string

   ● A list of strings

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

● One or more digits

○ Several digits followed by a plus sign

○ Any mathematical expression

○ Zero or more digits

○ Any number of digits at the beginning of a line

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)
```

○ ^F.+:

○ From:

○ :

● ['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?

● stephen.marquard@uct.ac.za

○ \@\

○ d@uct.ac.za

○ marquard@uct

○ From

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