Regular Expressions

TOTAL POINTS 10

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

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

- ○ @\S+
- ○ F.+:
- ● @(\S+)
- ○ ..@\S+..

1 point

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

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

1 point

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

- ○ 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
- ○ Match any number of lowercase letters followed by any number of digits

1 point

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

○ An integer

○ A boolean

○ A string

◉ A list of strings

○ A single character

1 point

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

◉ .

○ ^

○ ?

○ $

○ *

○ +

1 point

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

◉ 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"

1 point

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

○ Any number of digits at the beginning of a line

○ Several digits followed by a plus sign

○ Any mathematical expression

◉ One or more digits

○ Zero or more digits

1 point

8.Question 8
What does the following Python sequence print out?

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

◉ ['From: Using the :']

○ ['From:']

○ ^F.+:

○ From:

○ :

1 point

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

○ ^

○ **

◉ ?

○ $

○ ++

○ \g

1 point

10.Question 10
Given the following line of text:

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
○ marquard@uct
○ \@\
○ From
○ d@uct.ac.za

1 point