

1. Which of the following best describes "Regular Expressions"? 1 point

- ☐ A way to calculate mathematical values paying attention to operator precedence
- ☒ A small programming language unto itself
- ☐ The way Python handles and recovers from errors that would otherwise cause a traceback
- ☐ A way to solve Algebra formulas for the unknown value

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 an entire line as long as it is lowercase letters or digits
- ☐ Match any text that is surrounded by square braces
- ☐ 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

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

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

- ☐ Any mathematical expression
- ☐ Several digits followed by a plus sign
- ☒ One or more digits
- ☐ 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)
```

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

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

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