Q1. What is the benefit of regular expressions?

It helps to identify the search pattern in a string. Further it helps in replacing and formatting the data.

Q2. Describe the difference between the effects of "(ab)c+" and "a(bc)+." Which of these, if any, is the unqualified pattern "abc+"?

The associative law of multiplication is written as(ab)c=a(bc).

Q3. How much do you need to use the following sentence while using regular expressions?

import re

Once at the start re used as compile(),search(),findall(),sub() for search and replace, split(),etc.

Q4. Which characters have special significance in square brackets when expressing a range, and under what circumstances?

Numeric characters.

The range is an immutable sequence, so that values can be accessed by passing indexes in the square brackets [].

Q5. How does compiling a regular-expression object benefit you?

It helps to search a pattern without having to rewrite it, it helps in pattern identification.

Q6. What are some examples of how to use the match object returned by re.match and re.search?

import redenote character classes, as in match any of the characters/symbols

result = re.match(r'in', 'in Ineuron')

print result.group(0)

>in

import re

result = re.search(r'ineuron', 'in Ineuron')

print result.group(0)

>ineuron

Q7. What is the difference between using a vertical bar (|) as an alteration and using square brackets as a character set?

| is used to provide 'or' functionality when used within ()'s, [] is denoted as character classes, as in match any of the characters/symbols

Q8. In regular-expression search patterns, why is it necessary to use the raw-string indicator (r)? In   replacement strings?

raw string notation (r"text") keeps regular expressions meaningful and confusion-free.