Q1. What is the benefit of regular expressions?

Answer: Regular expressions help in searching certain pieces of text within the textual data and even help in finding, replacing the values as well depending on the need.

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

Answer: (ab)c+ means one ab followed by one or more number of c’s . a(bc)+ means a followed by one or more number of bc’s. None of them is unqualified pattern as per our observation.

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

import re

Answer: Re is the main module for importing all the required libraries to be used for regular expression matching purposes.

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

Answer: +,.^,\ are the characters which has special significance depending what is the purpose of their usage.

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

Answer: It helps in finding a particular text portion in the string without rewriting it again from our side.

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

Answer:

For re.search:

Import re

Pattern = ‘this’

Text = ‘does this text match the pattern’

Match = re.search(pattern,text)

For re.match:

Import re

Pattern = ‘this’

Text = ‘does this text match the pattern’

Match = re.match(pattern,text)

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

Answer: | separates 2 patterns hoping that either one of the patterns will match with text for required substring.

[] keeps all the characters as a separate pattern which we need to match for a particular pattern with the required string .

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

Answer: Raw string eliminates the difficult to read expressions and maintains readability.