Q1. What is the benefit of regular expressions?

**Ans:** regular string is used to get specific patterns from a string.

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

**Ans:** There is no difference between the affects of these.

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

import re

**Ans:**

One time only to use regular expressions, it imports package related to regular expressions.

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

**Ans:**

“-” has a special significance when expressing a range, it will basically defines start and end of range.

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

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

**Ans:**

import re

print(re.search(r"[^abc]","abcde")) -> Match =’d’

print(re.search(r"[a-p]","xenon")) -> Match =’e’

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

**Ans:**

Vertical bar (|) matches either character set, suppose if A|B I defined then it will either match A or B. While square brackets for char set matches characters in thar range, suppose [A-Z] will match the characters fall in range between A to Z.

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

**Ans:**

When an 'r' prefix is present, a character following a backslash is included in the string without change, and all backslashes are left in the string. For example, the string literal r"\n" consists of two characters: a backslash and a lowercase 'n'.