Q1. What is the benefit of regular expressions?

Regular expressions can easily find the characters, pair of characters by just typing few characters of code. Otherwise, it is difficult to write several lines of the code for the same thing that a regular expression code is capable of doing with just a line of code.

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

Both return abc. Here, a(bc)+ means there can be any letter after bc and there can be anything (ab)c+ of any length.

Both are qualified pattern for abc+

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

import re

just once as it’s a package import sentence

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

Inside the square braces circumflex anchor(^) and backslash(\) have special significance

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

It helps to search patterns without rewriting them

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

string\_with\_newlines = """something

someotherthing"""

import re

print re.match('someother', string\_with\_newlines) # cannot find a match

print re.search('someother',string\_with\_newlines) # this will find a match

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

Vertical bar means OR

Square brackets means any character i.e. inside the square brackets

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

It is because some sentences/lines may have same symbols as that of the regular expression symbols. So to avoid any confusion, it is advisable to use r string indicator.