Q1. What is the benefit of regular expressions?

Ans=> we can use it in any situation where we want to extend functionalities for 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=>both are same

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

Ans => one time in one file.

import re

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

Ans=> Inside a character class, only the character class metacharacters (backslash, circumflex anchor and hyphen) have special meaning. You must use a backslash when you use character class metacharacters as literals inside a character class only

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

Ans=> We can combine a regular expression pattern into pattern objects, which can be used for pattern matching. It also helps to search a pattern again without rewriting it

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

Ans=>

import re

pattern = '^a...s$'

test\_string = 'abyss'

result = re.match(pattern, test\_string)

if result:

print("Search successful.")

else:

print("Search unsuccessful.")

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

Ans=>vertical bar means or and square bracket means has to.

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

Ans=> Because regular expressions are frequently static strings, which are conveniently represented as string literals.