**Assignment 7 Solution**

Q.1 => What is the name of the feature responsible for generating Regex objects?

**Answer :-**

**re.compile() function is responsible for generating Regex objects.**

Q.2 => Why do raw strings often appear in Regex objects?

**Answer :-**

**Row string are used so that backslash do not have to be escaped.**

Q.3 => What is the return value of the search() method?

**Answer :-**

**search() function take two parameter and return the match object if there is a match. If there is more than one match then it will be return only first occurrence.**

Q.4 => From a Match item, how do you get the actual strings that match the pattern?

**Answer :-**

**The group() method return string of the matched text.**

Q.5 => In the regex which created from the r'(\d\d\d)-(\d\d\d-\d\d\d\d)', what does group zero cover? Group 2? Group 1?

**Answer :-**

**Group 0 is the entire match.**

**Group 1 cover the first set of parentheses.**

**Group 2 cover the second set of parentheses.**

Q.6 => In standard expression syntax, parentheses and intervals have distinct meanings. How can you tell a regex that you want it to fit real parentheses and periods?

**Answer :-**

**Periods and parentheses can be escaped with a backslash: \.,\(,and\).**

Q.7 => The findall() method returns a string list or a list of string tuples. What causes it to return one of the two options?

**Answer :-**

**If the regex has no group then list of string is returned.**

**If the regex has group then list of tuple of string is returned.**

Q.8 => In standard expressions, what does the | character mean?

**Answer :-**

**The | character mean matching “either,or” between two group.**

Q.9 => In regular expressions, what does the character stand for?

**Answer :-**

**Unable to understand the question please clarify.**

Q.10 => In regular expressions, what is the difference between the + and \* characters?

Answer :-

**The “+” match one and more.**

**The “\*” match zero and more.**

Q.11 => What is the difference between {4} and {4,5} in regular expression?

**Answer :-**

**The {4} matches exactly four instance of the group.**

**The {4,5} matches between four and five instance**.

Q.12=> What do you mean by the \d, \w, and \s shorthand character classes signify in regular expressions?

**Answer :-**

**The \d match a single character that is digit.**

**The \w match a single character that is word.**

**The \s match a single character that is space.**

Q.13 => What do means by \D, \W, and \S shorthand character classes signify in regular expressions?

**Answer :-**

**The \D match a single character that is not a digit.**

**The \W match a single character that is not a word.**

**The \S match a single character that is not a space.**

Q.14 => What is the difference between .\*? and .\*?

**Answer :-**

**.\*? => (.) matches any character.**

**(\*) = > any number of times.**

**(?) => as few time as possible to make the regex match.**

Q.15 => What is the syntax for matching both numbers and lowercase letters with a character class?

**Answer :-**

**The character class [a-zA-Z0-9] will match all lowercase uppercase and number.**

Q.16 => What is the procedure for making a normal expression in regax case insensitive?

**Answer :-**

**Passing re.IGNORECASE as a second argument to re.compile.**

Q.17 => What does the . character normally match? What does it match if re.DOTALL is passed as 2nd argument in re.compile()?

**Answer :-**

**The . character normally matches any character except newline character.**

**If re.DOTALL id passed a s second arguments to re.compile then dot also match the new line character.**

Q.18 => If numReg = re.compile(r'\d+'), what will numRegex.sub('X', '11 drummers, 10 pipers, five rings, 4 hen') return?

**Answer :-**

**‘ X drummers, X pipers, five rings, X hen’.**

Q.19 => What does passing re.VERBOSE as the 2nd argument to re.compile() allow to do?

**Answer :-**

**The re.VERBOSE allow you to add whitespace and comments to the string passed to re.compile().**

Q.20 => How would you write a regex that match a number with comma for every three digits? It must match the given following:

'42'

'1,234'

'6,368,745'

**Answer :-**

**Re.compile(r’^\d{1,3}(,\d{3})\*$’) will create this regex.**