**Q1**. In the below elements which of them are values or an expression? eg:- values can be integer or string and expressions will be mathematical operators.

\*

'hello'

-87.8

-

/

6

**ANSWER-** Values are- 'hello', -87.8, 6

Expressions are- \* , - , / , +

**Q2**. What is the difference between string and variable?

**ANSWER-** Variables are symbols that you can use to store data in a program. You can think of them as an empty box that you fill with some data or value. Strings are data, so we can use them to fill up a variable.

**Q3**. Describe three different data types.

**ANSWER-** Integer, Strings, Floating point number and Boolean.

**Q4**. What is an expression made up of? What do all expressions do?

**ANSWER-** An expression is a combination of values and operators. All expression evaluates to a single value.

**Q5**. This assignment statements, like spam = 10. What is the difference between an expression and a statement?

**ANSWER-** An expression evaluates to a single value, statement can not. Above we are assigning value to a variable .

**Q6**. After running the following code, what does the variable bacon contain?

bacon = 22

bacon + 1

**ANSWER-**  bacon contain 22 because ‘bacon + 1’ is just a statement we are not assigning back this value to bacon variable.

**Q7**. What should the values of the following two terms be?

'spam' + 'spamspam'

'spam' \* 3

**ANSWER-** Both terms will have ‘spamspamspam’

**Q8**. Why is eggs a valid variable name while 100 is invalid?

**ANSWER-**  Variable names cannot begin with a number but it can be end with a number.

**Q9**. What three functions can be used to get the integer, floating-point number, or string version of a value?

**ANSWER-** The int(), float(), and str() functions will evaluate to the integer, floating-point number, and string versions of the value passed to them.

**Q10**. Why does this expression cause an error? How can you fix it?

'I have eaten ' + 99 + ' burritos.'

**ANSWER-** Above expression we are trying to concatenate integer( 99 ) with strings that is not correct in python. To avoid error, we have to convert integer( 99 ) into String ‘99’.