**1. 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.**

\* **- Expression**

'hello' **- Values**

-87.8 **- Values**

- **- Expression**

/ **- Expression**

* **- Expression**

6 **- Values**

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

\* Variable can store information and Strings are a type of information

\* A string is a collection of one or more characters put in a single quote, double-quote or triple quote

**3. Describe three different data types.**

Three different types of data types are;

\***Numeric**- it contains *Integers,Float, Complex numbers.*

*Integers***-** It contains positive or negative whole numbers without decimals, represented by int

*Float* **-** It is a real number with floating point representation. It is specified by a decimal point

*Complex numbers***-** It is specified as *(real part) + (imaginary part)j*. For example – 2+3

\***Boolean -** Data type with one of the two built-in values, True or False

\* **Sequence**- it contains *Strings, List, Tuple*

*Strings***-** A string is a collection of one or more characters put in a single quote, double-quote or triple quote

*List***-** Lists in Python can be created by just placing the sequence inside the square brackets[]. It is a collection of data.

*Tuple-*It is just like lists, but it cannot be modified, it is created by

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

An expression is a combination of operators and operands that is interpreted to produce some other value,

 An expression is evaluated as per the precedence of its operators to produce some other value.

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

An Expression always evaluates to a value and a Statement does something, like creating a variable or displaying a value, it only does whatever the statement says.

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

bacon = 22

bacon + 1

**Ans- 23**

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

'spam' + 'spamspam' **= ‘spamspamspam’ -**String

'spam' \* 3 **= ‘spamspamspam’ -**String

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

Variable name cannot start with numbers

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

int(), float(), and str()

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

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

Only String can be concatenated, 99 is integer..

to fix it-

'I have eaten ' + ’99’ + ' burritos.'

'I have eaten ' + str(99) + ' burritos.'