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.**

\*

'hello'

-87.8

-

/

6

**A)** ‘hello’, -87.8 , 6 are values and \* , - , / , + are expressions

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

**A) String :** It is a single or group of characters enclosed between single or double quotes

also it is one of the datatype.

**Variable :**  Variable is a name given to a memory location. We can't use any

symbols and numbers as a variable. We can only use underscore "\_" in variable

name.

The difference between string and variable is string is a value and variable it holds the

value in a specific memory location.

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

**A)** INT data type : it stores the integer type of data.

FLOAT data type : it stores the floating type of data it means it contains precision floating

point.

STR data type : it stores single or group of characters enclosed between double quotes.

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

**A)** A combination of operands and operators is called expression. The expression in python

produces some value or result after being interpreted by the python interpreter.

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

**A)** A statement in Python is used for creating variables or for displaying values. The expression in Python produces some value or result after being interpreted by the Python interpreter

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

**bacon = 22**

**bacon + 1**

**A)** 23

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

**'spam' + 'spamspam'**

**'spam' \* 3**

1. ‘spamspamspam’

‘spamspamspam’

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

**A)** Variable name cannot begin with number .While creating variable name, the name should always start with either alphabet or underscore (\_).

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

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

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

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

**A)** Inthis expression we are concatenating the string with integer ,that is why it is giving error. We can fix this issue by putting single quotes before and after 99 (‘99’) or using str function (str(99)) then this expression will not give any error.