1. What are the differences between operators and values in the following?

\*

**This is multiplication operator.**

'hello'

**This is a string.**

-87.8

**This is a float number.**

-

**This is a subtraction operator.**

/

**This is a divide operator.**

+

**This is addition operator. It can also be used for concatenation.**

6

**This is integer value.**

2. What is the difference between string and variable?

spam

'spam'

**A variable stores information whereas string is type of information you would store in variable.**

3. Describe three different data forms.

**1)Numeric Type :Integer, Floating point numbers, Complex Number**

**2)Text Type: String**

**3)Sequence Type: List, Tuple, Range**

**4)Set Type : Set**

**5)Mapping Type : Dictionary**

**6)Boolean Type: Bool**

4. What makes up an expression? What are the functions of all expressions?

**An expression is  made up of variables, operators, and method invocations, which are constructed according to the syntax of the language, that evaluates to a single value.**

5. In this chapter, assignment statements such as spam = 10 were added. What's the difference between a declaration and an expression?

**Declaration load before any code is executed while expression loads only when the interpreter reaches that line of code.**

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

bacon = 22

bacon + 1

**22**

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

'spam' + 'spamspam'

**spamspamspam**

'spam' \* 3

**spamspamspam**

8. Why is it that eggs is a true variable name but 100 is not?

**Eggs is a string which can be used as variable but 100 is an number which cannot be used as variable. A variable cannot start with variable.**

9. Which of the following three functions may be used to convert a value to an integer, a floating-point number, or a string?

**Int()**

**Float()**

**Str()**

10. What is the error caused by this expression? What would you do about it?

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

**String cannot be concatenate with integer. We have convert 99 to string before concatenate.**

**Str(99)**

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

**O/P:**

**I have eaten 99 burritos.**