QUESTION NO: 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.

Answer: There are 4 exprssion and 3 values Values are: ('hello',-87.8,6) expression: (*,-,/,+)

QUESTION NO 2: What is the difference between string and variable?

Answer: A Variable is the location name in the memory that stored the data, and A String is a group of a charcter or a single character usually enclosed in Double quotes " " or single quotes ' '

QUESTION NO: 3 Describe three different Data Types?

Answer: Three fundamental Data types in python are int, float, complex. int data type: We can use int data type to represent whole numbers (integral values) float data type: We can use float data type to represent floating point values (decimal values) complex data type: Complex number is represented by complex class. It is specified as (real part) + (imaginary part)j. Example for int data type int_num=45 Example for float data type flo_num=1.7 Example for Complex data type com_num=100+2.5j

QUESTIION NO: 4 What is an expression made up of, What do all expressions do?

Answer: An expression is a combination of values, variables, operators, and calls to functions.

QUESTION NO :5 This assignment statements, like spam = 10. What is the difference between an expression and a statement?

Answer: An expression is a combination of values, variables, and operators. A statement is an instruction that the Python interpreter can execute.

QUESTION NO: 6 After running the following code, what does the variable bacon contain? bacon = 22 bacon + 1

Answer: The variable bacon contain 22. if the expression be like in the form bacon=bacon+1 than it will return 23.

QUESTION NO: 7 What should the values of the following two terms be? 'spam'+'spamspam' 'spam'*3

Answer: Both expressions evaluate to the string 'spamspamspam' Where as the first expression follows String Concatentation and the second expression follows String Multiplication

QUESTION NO 8. Why is eggs a valid variable name while 100 is invalid?

Answer: As per python, Variable names cannot begin with a number. The python rules for naming a variable are :- Variable name must start with a letter or the underscore character. Variable name cannot start with a number. Variable name can only contain alpha-numeric characters and underscores (A-z, 0-9, & _).

QUESTION NO: 9 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,string version of the value passed to them.

QUESTIION NO :10 Why does this expression cause an error? how can you fix it? 'I have eaten ' + 99 + 'burritos.'

Answer: This cause of error is 99.because 99 is not a string. 99 must be typecasted to a string to fix this error. the correct way is: Input: 'I have eaten ' +'99' + 'burritos.' Output: 'I have eaten 99 burritos.'