1.What are the two values of the Boolean data type? How do you write them?

Ans: True and false using capital T and F rest of the word with lowercase

2. What are the three different types of Boolean operators?

Ans: and, or and not are three types of Boolean operators

3. Make a list of each Boolean operator's truth tables (i.e. every possible combination of Boolean values for the operator and what it evaluate alse ).

Ans : True and True is True, True and False is False, False and True is False, False and False is False, True or True is True, True or False is True, False or Ture is True, False or False is False, not True is False, not False is True.

4. What are the values of the following expressions?

(5 > 4) and (3 == 5) - False

not (5 > 4) -False

(5 > 4) or (3 == 5) - True

not ((5 > 4) or (3 == 5)) – False

(True and True) and (True == False) -False

(not False) or (not True) - True

5. What are the six comparison operators?

Ans: ==,!=, <,>,<= and >=

6. How do you tell the difference between the equal to and assignment operators?Describe a condition and when you would use one.

Ans: == is equal to operator that compares two value and evaluates to a Boolean, while = is the

Assigment operator that stores a value in a variable. A condition is an expression used in a flow

Control statement that evaluates to a Boolean value

7. Identify the three blocks in this code:

spam = 0

if spam == 10:

print('eggs')

if spam > 5:

print('bacon')

else:

print('ham')

print('spam')

print('spam')

Ans : print('eggs')

if spam > 5:

print('bacon')

else:

print('ham')

print('spam')

8. Write code that prints Hello if 1 is stored in spam, prints Howdy if 2 is stored in spam, and prints Greetings! if anything else is stored in spam.

Ans : if spam ==1:

print('Hello')

elif spam ==2:

print('Howdy')

else:

print('Greetings')

9.If your programme is stuck in an endless loop, what keys you’ll press?

Ans : Press CTRL – C to stop programme stuck in endless loop.

10. How can you tell the difference between break and continue?

Ans : The break statement move execution outside and just a loop. The continue

Statement will move the execution to the start of the loop.

11. In a for loop, what is the difference between range(10), range(0, 10), and range(0, 10, 1)?

Ans : They all do same thing . The range (10) call ranges from 0 up to 10 , range (0,10) explicitly

Tells the loop to start at 0 , and range (0,10,1) explicitly tells the loop to increase the variable 1 on each interation.

12. Write a short program that prints the numbers 1 to 10 using a for loop. Then write an equivalent program that prints the numbers 1 to 10 using a while loop.

Ans : for i in range (1,11):

print(i)

and

i = 1

while i <= 10:

print(i)

i = i + 1

13. If you had a function named bacon() inside a module named spam, how would you call it after importing spam?

Ans : This function can be called with spam.bacon().