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

True, False

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

AND OR NOT

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 ).

And

1 1 1

1 0 0

0 1 0

0 0 0

Or

0 1 1

1 1 1

0 0 0

1 0 1

Not

1 0

0 1

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?

<,>, ==, !=, <=, >=

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

Equal to is used to check whether the statement is true or false, assignment operator is used to assign value to the variable

a==b

a=2

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')

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.

Spam = 1

If spam==1:

Print(‘Hello’)

If spam ==2:

Print(‘Howdy’)

Else:

Print(‘Greetings’)

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

Ctrl+c

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

Break statement terminates the loop from which it is called, continue statement skips rest of the loop and continues the next iteration

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

For range(10) means from 0 to 9

Range(0,10) means starting from 0 till 9

Range(0,10,1) means start from 0 till 9 and step size is 1

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.

For I in range(1,11):

Print(i)

While i<11:

Print(i)

I+=1

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

Import spam

Spam.bacon()