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

It has two values: True and False which are special versions of 1 and 0 respectively and behave as arithmetic contexts.

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

Boolean operators are the words "AND", "OR" and "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 ).

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.

4. What are the values of the following expressions?

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

not (5 > 4)

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

not ((5 > 4) or (3 == 5))

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

(not False) or (not True)

False  
False  
True  
False  
False  
True

5. What are the six comparison operators?

==, !=, <, >, <=, and >=.

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

== is the equal to operator that compares two values and evaluates to a Boolean, while = is the assignment operator that stores a value in a variable.

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')

If, print (ham) and 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.

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?

We have to press Ctrl + C to stop a program

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

The break statement will move the execution outside and just after a loop whereas 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)?

The range(10) call ranges from 0 up to (but not including) 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 by 1 on each iteration.

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)  
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?

Spam.bacon()