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

**True and 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 ).

**True and True evaluates to True True or True evaluates to True not True to False**

**True and False evaluates to False True or False evaluates to True not False to True**

**False and True evaluates to False False or True evaluates to True**

**False and False evaluates to False False or False evaluates to False**

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 operator is denoted by ==**

**Assignment operator is =**

**Eg.**

**x=4 (assignment operator)**

**If x==4: ( equal operator)**

**print(“yes”)**

7. Identify the three blocks in this code:

spam = 0

if spam == 10:

print('eggs') **( indentation required)**

if spam > 5:

print('bacon') **( indentation required)**

else:

print('ham') **( indentation required)**

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.

**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?

**Ctrl + C**

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

**Break will come out of the current loop whereas continue with move to the next iteration of the same loop.**

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

**They are all the same**

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)**

**i=1**

**while i<11:**

**print(i)**

**i+=1**