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

**ANS : TRUE, FALSE**

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

**ANS: 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 ).

**ANS :**

**AND**

**X Y X AND Y**

**True True True**

**True False False**

**False True False**

**False False False**

**OR**

**X Y X OR Y**

**True True True**

**True False True**

**False True True**

**False False False**

**NOT**

**X NOT X**

**True False**

**False 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) **EXPRESSION**

(not False) or (not True) **EXPRESSION**

5. What are the six comparison operators?

**ANS : == , >=, <= , != , > , <**

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

**ANS : Assignment operator is used to ASSIGN A value to a variable. Eg. A=10**

**Equal to (==)operator checks whether the condition is satisfied**

7. Identify the three blocks in this code:

spam = 0

if spam == 10: **# block 1**

print('eggs')

if spam > 5: **# block 2**

print('bacon')

else: **# block 3**

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 = 0

If spam == 1:

Print(‘Hello’)

Elif spam == 2:

Print(‘Spam)

Else:

Print(“GREETINGS”)

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

**ANS : CTRL+C**

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

**ANS : break will exit from the loop during executuion**

**Continue will leave that current iteration and goes to the next iteration in the loop**

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

**ANS:**

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:**

x = range(0, 10, 1)

for n in x:

print(n)

i = 0

while(i <= 10):

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 as s

s.bacon()