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

Ans- 1.True 2.False

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

Ans –1.AND operator 2. OR operator 3. Not operator

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-1) true and true is true

2. true and false is false

3.false and ture is false

4. false and false is false

5) true or true is true

6)true or false is false.

7).false or ture is false

8). false or false is false

9)not true is false

10) not 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)

Ans- false

False

True

False

False

true

5. What are the six comparison operators?

Ans- 1. >(greater than )

2.<(less than)

3.<=(less than equal to)

4.=>(greater than equal to )

5.!=(Not equal to)

6.==(equal to)

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 the equal to operator that compare two values and evaluates to a Boolean , while = is the assignment operator that store a values 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')

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 – Ctrl+C and stop the program stuck in an infinite loop

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

Ans- 1.Break keyword is used to the stop the execution of program. And control transfer to the end of the block.

2.Contiue Keyword is used to the stop the execution of the program And control transfer to the begining of the loop

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

They all do the same thing. The range(10) call range from 0up to 10,range(0,10)

Explicitly tells the the loop to start at 0,and range (0,10,1) explicitly tells the loop to increase the variable by 1 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.

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

Print(i)

And

i=1

whilei<=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- spam.bacon()