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

Ans.1

True and False are the two values of the Boolean data type . Using T & F in capital letter and rest in lower letters.

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

Ans.2

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.3

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

False or True is True

False or False is False

not True is False

not False is True

**4. What are the values of the following expressions?**

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

Ans. False

**not (5 > 4)**

Ans. Flase

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

Ans. True

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

Ans. False

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

Ans. False

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

Ans. True

**5. What are the six comparison operators?**

Ans.5

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

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

Ans.6

== equal to operator compare two values and evaluates to a Boolean.

= is assignment operator which stores a value in 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. 7

Three blocks are everything inside the if statement and the lines print(‘bacon’) and print(‘ham’).

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.8

Spam = int(input(‘Enter value : ‘,)

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.9

CTRL-C for interrupt endless loop

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

Ans.10

The main difference between both the statements is that when break keyword comes, it terminates the execution of the current loop and passes the control over the next loop or main body, whereas when continue keyword is encountered, it skips the current iteration and executes the very 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.11 No such difference between these three. Output will be same as below

range(10) means it starts from 0 ,1,2,3,4,5,6,7,8,9 in this it took value from 0 index by default and stop at 10th index.

range(0,10) means it starts from 0,1,2,3,4,5,6,7,8,9 in this it took value from defined 0 index and stop at 10th index.

range(0,10,1) means it starts from 0,1,2,3,4,5,6,7,8,9

**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.12

**# for loop code**

for i in range (1,11):

print(i)

**# While loop code**

i = 1

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?**

Ans.13

This function can be called with spam.becon()