1. What are the two values of the Boolean data type? How do you write them?
Ans: True=1 False=0
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

i/p1	i/p2	o/p
0	0	0
	-	0
0	1	0
1	0	0
	U	U
1	1	1

OR

i/p1	i/p2	o/p
0	0	0
0	1	1
1	0	1
1	1	1

Not

i/p	o/p
0	1
1	0

4. What are the values of the following expressions?
(5 > 4) and (3 == 5)[0 and 0]=0(False)
not (5 > 4)0(False)
(5 > 4) or (3 == 5)[1 or 0]=1(True)
not ((5 > 4) or (3 == 5))0 (False)
(True and True) and (True == False)[0 and 0] and[0]=0(False)
(not False) or (not True)[1 or 0]=1 (True)
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: [== &=] "=" is assignment operator eg. A=2
"==" is comparison operator eg.3==5 (ans is False)
7. Identify the three blocks in this code:
spam = 0
[if spam == 10:
print('eggs')]1 st block
[if spam > 5:
print('bacon')]—2 nd block
[else:
print('ham')
print('spam')]3 rd block
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:
spam = input()
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 : Interuupt kernel (stop button)
10. How can you tell the difference between break and continue?
Ans: Break -once condition is true terminate the loop with break
Continue-If condition matches it skip the current iteration and continue with further iterations(loop)
11. In a for loop, what is the difference between range(10), range(0, 10), and range(0, 10, 1)?
Ans: range(10) o/p=[0,1,2,3,4,5,6,7,8,9] start_index=0(default), stop_index=10
range(0,10) o/p=[0,1,2,3,4,5,6,7,8,9] start_index=0 stop_index=10
range(0,10,1) o/p=[0,1,2,3,4,5,6,7,8,9] start_index=0 stop_index=10 step_size=1
Conclusion: All three expressions gives same o/p
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: Using "for –loop"
for i in range(1,11):
print(i)
Using "while-loop"
i=1
while i in range(1,11):
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: import spam
spam.bacon()