Tell time complexity of all the problems: (ignore syntax errors, if any)

Q - 1)Below are nested "K" for loops (3 marks)

Q - 2) Recursive function (3 marks)

```
# n= int(input("Enter the limit"))
# def func(n):
# if n >= 1:
# func(n - 1)
# print("Time complexity")
```

Q - 3) (3 marks)

Q - 4) (3 marks)

```
# N = int(input("Enter the limit"))
# M = int(input("Enter the limit"))
# a = b = 0
# for i in range(N):
# a = a + 1
# for j in range(M):
# b = b + rand()
```

Q - 5) (3 marks)

```
# n= int(input("Enter the limit"))
# for i in range(n):
# for j in range(i):
# for k in range(100):
# print("Time complexity")
```

Q - 6) [BONUS QUESTION] (6 marks)

```
# n= int(input("Enter the limit"))
# for i in range(n):
# j = 1
# while(j <= i^2):
# for k in range(n/2):
# print("Time complexity")</pre>
```

```
# Marks distribution:
```

- # Question 1,2, 3,4 and 5 carry 3 marks each.
- # Question 6 is a bonus question, that means if you leave that question you don't lose a mark, but
- # if you solve it, you can get an extra 6 marks.
- # Remark: maximum marks you can get is 15, bonus question helps only if you are not able to
- # solve another question.