## guestion No. 49

(a) If we take a random number say n=30. it means 30 statements in this list is false and 70-statements including 30th is true. Then there are to possible numbers. Let us take so is one amongst them. It means if 50th statement is correct then other so statements must be false. This is contradictory because previous statement told to statements are frue now 50 statements are trope. 50, we cannot choose a reandom number. 50, safety 95 that if we chose exact one statement to be true then 99 other statements will be folse as the 100th statement is false So, the answer is 99th statement is true.

## (b) No-Ans:

The sooth statement cannot be true as "it is claiming that all of the statements including itself is follow. So, it is contradictory. So, at least one statement is false. Thus; Statement 1 is correct. Then of 99th statement is frue then forom 2 to 100 statement is take where 99th statement 95 present it-self. so, due to contradiction 99th statement is also false. so, and statemont is true. Similarly, from 1 to statement 50 is true and from 51 to 100 statement is false.

## Ans NO (c)

If there are add number of statements then at the middle statements problem occurs. Let's take there are 3 Statements. As, 3 no. statement is talse, so, no. 1 statement is true. Now, if we assume statement 2 is false then it means a morce than 2 statements bore true but no. 3 is already false , so , it is contradictory. Again if statement 2 is true then it is claiming a least must be false, but statement 1 is already feto true so, statement 2 has to be smultaneously true and false. so, it is contradictory. Therefore, it will not work when there is odd number of statements.