Name: Sana Aslam Department: BSCS Section: "" Mid Term This is false because O(1) A algorithm is Said to run in Constant time if it requires the Same amount of time regardless of the input size. b) o(n^2logn) is faster than Ans This is true , Because o(n'2 Logn) is much closer to o(m) than to o(n12.1) QNO 2 Sol: 0(2⁵) 0(Logn) 0(nlogn) 0(3(Logn) 0(n(Logn)²) 0(n³4) 0(1·1n)

0 NO 3 0(n*n) Ans: Ans: O(nlogn) Ans: O(n Logn) Ans: O(n^2 Logn)





