

## Business Administration CSE317 DESIGN & ANALYSIS OF ALGORITHMS (Spring'19) Quiz #2A



Max Marks: 10 Time Allowed: 10 minutes ERP: \_\_\_\_ Name: \_ Determine whether each of the following functions is  $O(n^2)$ . (a) 17n + 11(b)  $n \log n$ (c)  $2^n$ (d)  $n^2 + 1000$ (e)  $\frac{n^3}{2^{100}}$ Arrange the functions n,  $1000 \log n$ ,  $n \log n$ , 2n!,  $2^n$ ,  $3^n$ , and  $n^2/1000000$  in a list so that each function is big-O of the next function.