a)

Greatest Order of growth (n+1)! n! n. 2" (lgn) and nielon (| e|)! n<sup>2</sup> and 4<sup>19</sup>n nion and lg(n!) 2197 and (VI)" 192(n) In(n) 7(3(n) In(In(n)) 19'n and 19'(19n) 19 (19° n) least order of growth n'190 and 1