Que 2: The number that exceeds its square by the greatest amount is [Roorkee 1990] A) -1 B) 0 C) 12 D) 1 Correct Answer: C Solution : Let the number is x, then y=x-x^2 du(du=1 2x and d2u(du)2= 2 (c0)

Let the number is x, then $y=x-x^2$ dy/dx=1-2x and $d2y/dx^2=-2$ (<0) 1-2x=0 $\Rightarrow x=1/2$.