Answeg - 7 => given, Maxs explodes and changes to black hole. Let Radius of black hole = R Radius of Mass = Rm given, R= 105 x Rm Using Bekenstein-Hawking xelation, Entropy generogated = S is S= Axea of black hole x a 02 961 ( Plank's length) 2 now, Plank's length = PL = 10-35 Axea of black hole = 4TR = 4T (15Rm) ?  $8 = \frac{4\pi \times 10^{10} \times R^{8}_{m}}{(10^{-35})^{8}} \times 9 = 9 \times 47 R^{8}_{m} \times 10^{80} \text{ J/K}$ assuming a=1, take Rm = 3-3895 x106m we get S= 1.444 x1094 J/K s, is entropy generated by black hole.