5.A.JEE ADVANCED/IIT-JEE1.Fill in the Blanks

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1) The larger of $99^{50} + 100^{50}$ and 101^{50} is... (1982 – 2*Marks*)
2) The sum of the coefficients of the polynomial $\left(1 + x - 3x^2\right)^{2163}$ is ... (1982 – 2*Marks*)
3) If $(1 + ax)^n = 1 + 8x + 24x^2 + \ldots$ then a=...and n=... (1983 – 2*Marks*)
4) Let n be positive integer. If the coefficients of 2nd, 3rd and 4th terms in the expansion of $(1 + x)^n$ are in $A.P$, then the value of n is... (1994 – 2*Marks*)
5) The sum of the rational terms in the expansion of $\left(\sqrt{2} + 3^{\frac{1}{5}}\right)^{10}$ is... (1997 – 2*Marks*)