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 $(1 + x - 3x^2)^2163$ is .....
   (1982- 2 Marks)

3. If $(1 + ax)^n = 1 + 8x + 24x^2 + ...$ 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)

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5. The sum of the rational terms in the expansion of $(\sqrt{2} + 3^{\frac{1}{5}})^{10}$ is.....
   (1997- 2 Marks)