

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

ai24btech11020 K.Rishika

- 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 $(1 + ax)^n = 1 + 8x + 24x^2 + \dots$ then $a = \dots$ and $n = \dots$ **(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 $(\sqrt{2} + 3^{\frac{1}{5}})^{10}$ is..... **(1997- 2 Marks)**