

## 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 – 2Marks)
- 2) The sum of the coefficients of the polynomial  $(1 + x - 3x^2)^{2163}$  is ..... (1982 – 2Marks)
- 3) If  $(1 + ax)^n = 1 + 8x + 24x^2 + \dots$  then  $a = \dots$  and  $n = \dots$  (1983 – 2Marks)
- 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 – 2Marks)
- 5) The sum of the rational terms in the expansion of  $(\sqrt{2} + 3^{\frac{1}{5}})^{10}$  is..... (1997 – 2Marks)