1

(2002)

EE24BTECH11055 - Sai Akhila Reddy Turpu

2) If the sum of coefficients in the expansion of $(a + b)^n$ is 4096, then the greatest

1) The coefficients of x^p and x^q in the expansion of $(1+x)^{p+q}$ are:

a) equal

d) none of these

b) equal with opposite signsc) reciprocals of each other

coefficient in the expansion is:

	a) 1594	b) /92	c) 924	d) 2924	
3)	The positive integer $(1 + 0.0001)^{10000}$ is			(2002)	
	a) 4	b) 5	c) 2	d) 3	
4)	r and n are positive integers, $r > 1$, $n > 2$ and coefficient of $(r + 2)^{th}$ term and $(3r)^{th}$ term in the expansion of $(1 + x)^{2n}$ are equal, then n equals: (2002)				
	a) 3r	b) $3r + 1$	c) 2r	d) $2r + 1$	
5)	5) If $a_n = \sqrt{7 + \sqrt{7 + \sqrt{7 +}}}$ having <i>n</i> radical signs, then by methods of mathematical induction, which is true? (2002)				
	a) $a_n > 7 \ \forall \ n \ge 1$ b) $a_n < 7 \ \forall \ n \ge 1$		c) $a_n < 4 \ \forall \ n \ge 1$ d) $a_n < 3 \ \forall \ n \ge 1$		
6) If x is positive, the first negative term in the expansion of $(1 + x)^{\frac{27}{5}}$ is: (2003)					
	a) 6th term	b) 7th term	c) 5th term	d) 8th term	
7)	The number of inte	cion, which is true? (2002) 7 $\forall n \ge 1$ 6 $\forall n \ge 1$ 7 $\forall n \ge 1$ 9 positive, the first negative term in the expansion of $(1 + x)^{\frac{27}{5}}$ is: (2003)			
	a) 35	b) 32	c) 33	d) 34	
	4				