

Permutation & Combination

Date Planned : / /	Daily Tutorial Sheet - 1	Expected Duration : 90 Min		
Actual Date of Attempt : / /	JEE Archive	Exact Duration :		

1.		umber of integer	s greate	r than 6000 tha	t can be	formed using th	ne digits	3, 5, 6,	7 and 8 without (2015 Main)		
	(A)	216	(B)	192	(C)	120	(D)	72	,		
2.		nany different ni so that the odd d	_		ns?			55 888 b	y rearranging its (2000)		
	(A)	16	(B)	36	(C)	60	(D)	180			
3.		~	_		•	~			ligit numbers are his is possible, is: (1998)		
	(A)	6	(B)	7	(C)	8	(D)	9			
4.		college of 300 st nts. The number		=	reads 5	newspapers and	l every i	newspap	er is read by 60 (1 998)		
	(A)	atleast 30	(B)	atmost 20	(C)	exactly 25	(D)	None o	f these		
5.	wome		irs from	amongst the cha	airs marl	xed 1 to 4 and th			ir each. First the et the chairs from (1982)		
	(A)	${}^{6}C_{3} \times {}^{4}C_{2}$	(B)	${}^4P_2 \times {}^4P_3$	(C)	$^{4}C_{2} + ^{4}P_{3}$	(D)	None o	f these		
6.	Then,	ifferent letters of the number of w	-	_	one lette			d from th	ese given letters. (1980)		
	(A)	69760	(B)	30240	(C)	99748	(D)	None o	f these		
7.	Let T_n be the number of all possible triangles formed by joining vertices of an n -sided regular polygon.										
	If T_{n+}	$_1 - T_n = 10$, then t	the value	e of n is:					(2013 Main)		
	(A)	7	(B)	5	(C)	10	(D)	8			
8.	The va	alue of the expres	ssion ⁴⁷	$C_4 + \sum_{j=1}^5 {}^{52-j}C_3$	is:				(1980)		
	(A)	$^{47}C_{5}$	(B)	$^{52}C_{5}$	(C)	$^{52}C_{4}$	(D)	None o	f these		
9.	Prove	that the product	of any <i>r</i>	consecutive nat	ural nun	nbers is always d	livisible	by r!.	(1985)		
10.	order	as in an English	dictiona	ry. The number	of words	that appear before	ore the w	vord COC			
	(A)	360	(B)	192	(C)	96	(D)	48	(2007)		
11.	adjace	ently, is:							's do not appear (2002)		
	(A)	40	(B)	60	(C)	80	(D)	100			
12 .		er of divisors of t		,					(1998)		
	(A)	4	(B)	8	(C)	10	(D)	3			