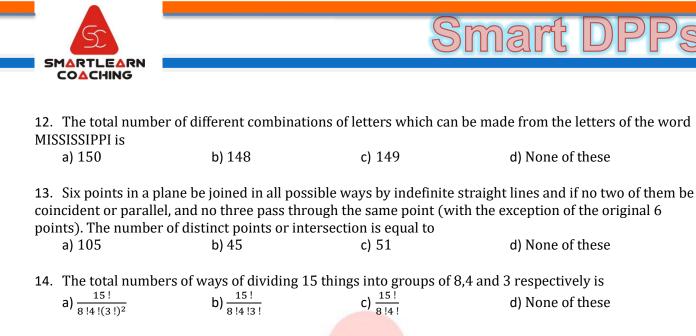




DPP DAILY PRACTICE PROBLEMS					
CLASS : XIth DATE :			SUBJECT : MATHS DPP NO. :1		
1. Let $A = \{x_1, x_2, x_3, x_4, x_5, x_6\}$, $B = \{y_1, y_2, y_3, y_4, y_5, y_6\}$. Then the number of one –one mapping from A to B such that $f(x_i) \neq y_v i = 1, 2, 2, 4, 5, 5, 5, 5$.					
1, 2, 3, 4, 5, 6 is a) 720	b) 265	c) 360	d) 145		
2. A man invites a party to $(m + n)$ friends to dinner and places m at one round table and n at another. The number of ways of arranging the guests is					
a) $\frac{(m+n)!}{m!n!}$	b) $\frac{(m+n)!}{(m-1)!(n-1)!}$	c) $(m-1)!(n-1)$)! d) None of these		
3. The number of ways in which seven persons can be arranged at a round table, if two particular persons may not sit together is					
a) 480	b) 120	c) 80	d) None of these		
4. If ${}^{2n+1}P_{n-1}$: ${}^{2n-1}$ a) 4	P _n : 3: 5, then the value of b) 3	<i>n</i> is equal to c) 2	d) 1		
5. The number of ways in which a committee can be formed of 5 members from 6 men and 4 women if					
the committee has at leas a) 186	t one woman, is b) 246	c) 252	d) 244		
 In how many ways ca a) 56 	an 5 books be selected ou	it of 10 books, if two s c) 58	specific books are never selected? d) None of these		
7. The number of parallelograms that can be formed from a set of four parallel lines intersecting another					
set of three parallel lines, a) 6	b) 18	c) 12	d) 9		
8. There is a set of m parallel lines intersecting a set of another n parallel lines in a plane. The number of					
parallelograms formed, is a) ${}^{m-1}C_2$. ${}^{n-1}C_2$	b) ${}^{m}C_{2}$. ${}^{n}C_{2}$	c) $^{m-1}C_2$. nC_2	d) ${}^{m}C_{2}$. ${}^{n-1}C_{2}$		
9. The value of ${}^{50}C_4$ + a) ${}^{56}C_4$	$\sum_{r=1}^{6} \sum_{r=1}^{56-r} C_3$ is b) $\sum_{r=1}^{56} C_3$	c) ⁵⁵ C ₃	d) ⁵⁵ C ₄		
10. The number of numb a) 7200	ers of 4 digits which are b) 3600	not divisible by 5, are c) 14400	e d) 1800		
11. 4 buses runs between back to Gwalior by anothe			lior to Bhopal by a bus and comes		

- a) 12 b) 16 c) 4 d) 8
 - 1

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15. In a circus there are ten cages for accommodating ten animals. Out of these four cages are so small that five out of 10 animals cannot enter into them. In how many ways will it be possible to accommodate ten animals in these ten cages? a) 66400 b) 86400 c) 96400 d) None of these

16. Let T_n denote the number of triangles which can be formed using the vertices of a regular polygon of nsides. If $T_{n+1} - T_n = 21$, then *n* equals c) 6 d) 4 a) 5 b) 7

17. At an electron, a voter may vote for any number of candidates not greater than the number to be elected. There are 10 candidates and 4 are to be elected. If a voter votes for at least one candidate, then the number of ways in which he can vote, is

a) 6210	b) 385	c) 1110	d) 5040
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18. All possible two factors products are formed from numbers 1, 2, 3, 4,...,200. The number of factors out of the total obtained which are multiples of 5, is a) 5040 b) 7180 c) 8150 d) None of these

19. If the total number of *m* elements subsets of the set $A = \{a_1, a_2, a_3, \dots, a_n\}$ is λ times the number of 3 elements subsets containing a₄, then *n* is $(m+1)\lambda d$ a) $(m-1)\lambda b$ $m\lambda c)$

20. The number of natural numbers less than 1000, in which no two digits are replaced, is a) 738 b) 792 c) 837 d) 720

d) None of these

d) None of these

d) None of these