

Tonic · Permutation & Combination

DPP No. 75

Total Marks : 22

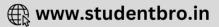
Max. Time : 23 min.

Type of QuestionsSingle choice Objective (no negative marking) Q.1,2,3,4,5,6(3 marks, 3 min.)					M.M., Min.	
					[18,	18]
Subjective Questions (no negative marking) Q.7				(4 marks, 5 min.)	[4,	5]
1.	Number of ways in which four different toys and five indistinguishable marbles can be distributed betwee					
	3 boys, if each boy receives at least one toy and at least one marble					
	(A) 42	(B) 100	(C) 150	(D) 216		
2.	If 'm' denotes the number of 5 digit numbers when each successive digits are in their descending order of magnitude and 'n' is the corresponding figure when the digits are in their ascending order o magnitude, then $(m - n)$ has the value					
	(A) 2. <sup>10</sup> C <sub>5</sub>	(B) <sup>10</sup> C <sub>4</sub>	(C) <sup>9</sup> C <sub>3</sub>	(D) <sup>9</sup> C <sub>5</sub>		
3.	The number of non negative integral solution of the equation, $x + y + 3z = 33$ is:					
	(A) 120	(B) 135	(C) 210	(D) 520		
4.	The total number of divisors of the number N = 25 . 34 . 510 . 76 that are of the form 4k + 2, K $\in$ N i equal to					
	(A) 385	(B) 384	(C) 96	(D) 77		
5.	There are 9 st. lines of which 5 are concurrent at a point and other 4 are concurrent at another poir and no two of these 9 lines are parallel then number points of intersection is					
	(A) 20	(B) 22	(C) 36	(D) 38		
6.	Number of natural numbers between 100 & 1000 such that at least one of their digits is 6, is					
	(A) 251	(B) 243	(C) 258	(D) 252		
7.	5 hovs & 4 airls s	it in a straight line. Find	the number of wa	ays in which they can be se	ated if 2 a	irle ar

together & the other 2 are also together but separated from the first 2.

Get More Learning Materials Here : 📕





## **Answers Key**

**1.** (D) **2.** (D) **3.** (C) **4.** (A)

5. (B) 6. (D) 7. 43200

Get More Learning Materials Here : 💻



