

OBJECTIVE 1 marks questions

1.	What is the value of 9_{p_3}	1
	(a) 304 (b) 504 (c) 440 (d) None of these.	
2.	N_p_r equal to –	1
	(a) $\frac{ n }{ n n-r }$ (b) $\frac{ n }{ r-n }$ (c) $\frac{ n }{ n-r }$ (d) None of these	
3.	7 books are to be arranged in such a way so that two particular books are always	1
	at first and last piece, find the number of arrangements.	
	(a) 60 (b) 230 (c) 480 (d) 240	
4.	Exactly 3 girls are to be selected from 5 girls and 3 boys. The probability of	1
	selected 3 girls will be –	
	(a) $\frac{15}{28}$ (b) $\frac{1}{56}$ (c) $\frac{5}{28}$ (d) None of these.	
5.	A building contractor needs 3 helpers and 10 man apply in how many ways can	1
	these selection taken place –	
	(a) 15 (b) 120 (c) 36 (d) 150	
6.	What is the value of 8_{c1}	1
	(a) 5 (b) 7 (c) 8 (d) None of these	
7.	N _{cr} equal to	1
	(a) $\frac{ n }{ n-r }$ (b) $\frac{ n }{ r-n }$ (c) $\frac{ n }{ n n-r }$ (d) Non of these	
8.	$3_{p_2} \times 5_{c1}$ equal to	1
	(a) 15 (b) 10 (c) 25 (d) None of these	
9.	Calculation of $\frac{8}{4}$ is	1
	(a) 1680 (b) 1560 (c) 1760 (d) None of these	
10.	If $7_{p_r} = 42$ find the value of r	1
	(a) 3^{p_r} (b) 2 (c) 4 (d) none of these	
11.	If $n_{p_2} = 42$ find the value of n	1
	(a) 3 (b) 2 (c) 7 (d) none of these	

12.	How many words can be formed with letter of the word SUNDAY taken two at a	1
	time. (a) 20 (b) 15 (c) 20 (d) Name of these	
12	(a) 20 (b) 15 (c) 30 (d) None of these	1
13.	In how many ways can 10 seats in a bus be occupied by 4 passengers	1
14	(a) 5040 (b) 3040 (c) 1000 (d) None of these	1
14.	Find <i>n</i> if $n_{c_5} = n_{c7}$	1
	(a) 10 (b) 2 (c) 35 (d) 12	
15.	6 equal to	1
	(a) $6x5x4$ (b) $6x5x4$ (c) both (d) None of these	
	LONG TYPE QUESTIONS 08 MARKS	
16.	Out of 6 gentlemen and 4 ladies a committee of 5 is to be formed. In how many	8
	ways can this be done. So as to include at least one leady in each committee.	
17.	In how many ways can team of 11 choosen from 14 Football players, if two of	8
	them can only be goalkeepers.	
18.	Find the value of n, if $n_{c4} = 5x n_{p3}$	8
19.	3 women and 5 men are to sit in a row for a Dinner. Find in how many ways they	8
	can be arranged. So that no two women sit next to each other.	
20.	In how many ways 12 different thing can be equally Distributed among 4	8
	persons? If they are divided in Four groups instead to given to 4 persons. What	
	will be the number of ways.	
21.	How many different words can be formed with the Letter of the	8
	"MATHEMATICS" ? In how many of them the vowels are together and	
	consonants are together.	
22.	To fill 12 vacancies there are 25 candidates of which 5 are from scheduled cast. If	8
	3 of the vacancies are reserved for scheduled cast candidates while the rest are	
	open to all, find the number of ways in which the selection can be made.	
23.	From 5 Apples, 4 Oranges and 3 Mangoes. How many selections of fruit can be	8
	made.	
24.	In how many ways can the letters of the words "BANARAS" be arranged. So that	8
	the letters n and s are never together.	
25.	What is permutation and combination and given formula.	8
26.	There are 10 professors and 20 students out whom a committee of 2 professors	8
	and 3 students to be formed. Find how many ways these committees can be	

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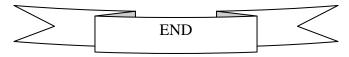
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formed if

- (a) a particular professor is included?
- (b) a particular professor is excluded?
- 27. If $2n_{c3}$: n_{c3} :: 11: 1 find n. 8
- 28. Find the value of n if

 $2n_{c3} = 100 \times n_{p2}$

- 29. There are 50 students in a class of a college. In how many ways can they select 3 8 representatives for the college union?
- 30. Find n if n_{c6} : $n-3_{c3} = 33:4$



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