PERMUTATION & COMBINATION, PROBABILITY

1.	In how many ways can the letters of the word RECTANGLE be arranged, such that all the vowels are always together?						
	a) 9!	b) 7!	c) 7!*3	d) 7!*3!			
2.	in how many different ways can you arrange the letters of the word 'PASSENGER', such that the two 'S' never occur together?						
	a) 10!/ 3! x 2!	b) 8! /2!	c) 9!/(2! x 2!)	d) 7! x 8!			
3.	How many 3 digit numbers can be formed from the digits 2, 3, 5, 6, 7 and 9 which are divisible by 5 and none of the digits is repeated?						
	a) 20	b) 16	c) 8	d) 24			
4.	A phone company offers 5 phone plan options: call waiting, call forwarding, voice mail, conferencing, and caller ID. A customer can choose 3 options. The number of ways one can avail the plan options is:						
	a) 10	b) 20	c) 3	d) 5			
5.	Mayank is going on a holiday trip. He wants to pack 3 t-shirts from 5 t-shirts he has. In how many ways can he make his choice?						
	a) 15	b) 8	c) 20	d) 10			
6.	formed using the num	er that is divisible by 2, can be					
	a) 240	b) 120	c) 100	d) 60			
7.	number of ways this c a) 120		c) 60	0, 1, 2, 3, 4 and 5 with the total d) None			
8.	How many 3 letter words, with or without meaning, can be formed out of the letters of the word 'SIGNATURE' if repetition of letters is not allowed?						
	a) 5	b) 6	c) 7	d) 8			
9.	How many 6-digit tel appears more than one	How many 6-digit telephone numbers can be formed if each number starts with 35 and no digit					
	a) 720	b) 360	c) 1420	d) 1680			
10. If we permute 7 letters of the word 'JUSTICE' in 71 ways. In how many words vowels do not come together?							
	a) 5,040	b) 4,320	c) 720	d) 120			
11.	The number of 5-digit a) 72	numbers that can be for b) 24	ormed from 4, 2, 0, 7 a	nd 3 are d) None of these			
12.		Out of 7 consonants and 4 vowels, how many words of 3 consonants and 2 vowels can be formed?					
a) 24400 b) 21300 c) 210 d) 25200							
13. There are 5 types of toys, with 2 toys of each type. In how many ways can a shopkeeper arrange them on a shelf?							
	a) 120	b) 242	c) 378	d) None of these			

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27.0	If we permute 8 letters of the word 'computer' in 8! Ways. How many permuted words have and 'e' next to each other?								
a) 720	b) 5040	c) 10080	d) 40320						
15. What is the value	e of 15C ₁₃ ?	ICIAL							
a) 15	4 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	PANC) 30 PMINE	⊟ d) 105 = E						
16. A polygon has 44	16. A polygon has 44 diagonals. What is the number of its sides?								
a) 5	b) 9	c) 11	d) 13						
17. when 10 persons shake hands with one another in how many ways is it possible									
a) 20	b) 90	c) 45	d) None of these						
	ays can a group of 5	men and 2 women be	made out of a total of 7 men and 3						
women? a) 1	b) 126	c) 63	d) 64						
10 4 66:-4	19. A group of 6 is to be made out of 8 girls and 6 boys. What is the probability that exactly 3 boys are								
selected?	o de made out of 8 gi	ris and 6 doys. what is	the probability that exactly 3 boys are						
a) 245	b) 3245	c) 720	d) None of these						
20. In a group of 6 h	ove and A girls four	children are to be selec	cted. In how many different ways can						
	such that at least one		cted. In now many different ways can						
a) 159	b) 209	c) 201	d) 212						
2 ed flowers and	1. There are 2 bags A and B. Bag A contains 6 red flowers and 3 pink flowers whereas Bag B cont 2 ed flowers and 7 pink flowers. One flower is chosen from a bag randomly. What is the probab								
that the flower ch		a) 4/0	J) 1/2						
a) 5/4	b) 5/9	TRANSFORM	MIN ^{d) 1/3} FUTURE						
	-	reen balls. In how man ast 2 of them are green?	y ways can 3 balls be drawn from the						
a) 18	b) 9	c) 28	d) 27						
23. Ramesh, Abhijeet and Ajay are eligible to be the captain of the cricket team. Shaid, john. Shisir and Nitin are eligible to be the co-captain. How many possible outcomes are there for choosing a captain and a co-captain?									
a) 3	b) 7	c) 16	d) 12						
24. If we permute 6 letters of the word 'SYSTEM', the number of permuted words with a vo									
third place are: a) 720	b) 120	c) 60	d) 224						
25. The number of possible selections of one or more questions from 8 given questions, each question									
having an alterna		TRANSFORMIN							
a) $2^8 - 1$	b) 3 ⁸ -1	c) 4 ⁸ -1	d) None of these						
26. If we permute 5 letters of the word 'mango, the number of permuted words with it at the second									
place are:	h) 6	a) 12	d) 24						
a) 5	b) 6	c) 12	d) 24						

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	Three unbiased coins and 1/4	are tossed. What is the b) 3/8	probability of getting a c) 7/8	at most 2 heads? d) ½				
	the other, each time re		is the probability that	Amit pick a ball each, one after Anu picks a ball numbered less I than Amit? d) 81/400				
8	The probability that a diamond or king being a) 4/52		pack of 52 cards will c) 1/52	form a pack of 52 cards will be d) 2/13				
	2). Find the probability that a person's birthday falls on Monday or Friday. a) 1/7 b) 2/7 c) 3/7 d) Cannot be determine							
	31. If a courier company has a record of delivering 89 couriers out of 100 on time. What is the probability that 5 couriers that a person is expecting today will reach his location tomorrow? a) 0.89 ⁵ b) 0.11 *5 c) 0.89 *5 d) 11 ⁵							
	If the probability that probability that both was 1/20		/8 and that B will live c) 1/5	e 15 yr is 9/10, then what is the d) None of these				
33.		on 🗸 vertices and a contract of the	0.00	That is the probability that ((10 + d) 4/10				
		JNAT	FTAI	om. What is the probability that				
	both are white? a) 5/16	b) 2/13	c) 3/26	d) 5/39				
8	35. Ram, Shyam and Dev had to catch a train. Probability of catching the train by Ram is by Shyam is 34 and by dev is 2. What is the probability that only one of them would catch the train? a) 9/40 b) 7/20 c) 1/20 d) 3/40							
36. A brother and sister appear for an interview against two vacant posts in an office. The probability of the brother's selection is 1/5th and that of the sister's selections is 1/3rd. What is the probability that one of them is selected?								
	a) 1/5		c) 1/3	d) 2/3				
37. A detergent powder company is having a contest. Each pack of 1 kg contains one of the land O. In every 20 packs, there are four Bs, five As, ten Ms and one O. What is the protection that's pack will have a B?								
	a) 1/4	b) 1/2	c) 1/5	d) 1/25				
38. 2 cards are drawn from a deck of 52 cards without replacement. What is the probability that one king and the other an ace?								
	a) 8/663	b) 4/663	c) 8/667	d) 4/669				

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39. In team uses 2 dice for deciding the person who would give a talk on "Technical aspects of effective communication". Shalini will give a talk only if the product of 2 numbers that turn up is greater than 20. what is the probability that Shalini would talk on the subject?

a) 1/3

b) 1/6

c) 1/12

d) None of these

40. In a miniature wonderland, three countries Austria, America and Germany are on display. If Austria and America occupied 3/7 and 4/9 of the display area respectively, what is the display area occupied by Germany?

a) 5/63

b) 1/21

c) 8/63

d) 3/21









COGNIZANT - GEN C - DEVELOPER

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