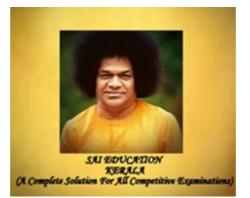
ONLINE COACHING DAY - 91 (10-07-19) PERMUTATION AND COMBINATION

KERALA PSC SPECIAL



Name of the Candidate *

M-2		•		
Place *				
Thrissur	•			
Contact Number *				

XXXX

Questions

Please Watch The Online Videos (1-4)

https://youtu.be/ARZp_eXejMg https://youtu.be/vKPpHL-wAFk https://youtu.be/pnAZpA8wXgw https://youtu.be/qwPWPB-6Lck I. From a group of 7 men and 6 women, five persons are to be selected to form a committee so that at least 3 men are there on the committee. In how many ways can it be done? *

1 point

564			
645			
735			
0 756			

2. In how many different ways can the letters of the word 'LEADING' be arranged in ^{1 point} such a way that the vowels always come together? *

\bigcirc	360
0	480
	720
\bigcirc	5040

3. In how many different ways can the letters of the word 'CORPORATION' be 1 point arranged so that the vowels always come together? *



50400

4. Out of 7 consonants and 4 vowels, how many words of 3 consonants and 2 vowels can 1 point be formed? *

25200	
21400	
5. In how many ways can the letters of the word 'LEADER' be arranged? st	1 point

\bigcirc	72				
\bigcirc	144				
\bigcirc	360				

6. In a group of 6 boys and 4 girls, four children are to be selected. In how many different ways can they be selected such that at least one boy should be there? *

0 159			
0 194			
0 205			
209			

7. In how many ways a committee, consisting of 5 men and 6 women can be formed 1 point from 8 men and 10 women? *

266			
5040			
11760			
86400			

8. A box contains 2 white balls, 3 black balls and 4 red balls. In how many ways can 3 ^{1 point} balls be drawn from the box, if at least one black ball is to be included in the draw? *



9. In how many different ways can the letters of the word 'DETAIL' be arranged in such 1 point a way that the vowels occupy only the odd positions? *

\bigcirc	32	
0	48	
0	36	
\bigcirc	60	

10. In how many ways can a group of 5 men and 2 women be made out of a total of 7 1 point men and 3 women? *

$oldsymbol{O}$	63		
\bigcirc	90		
0	126		
0	45		

11. How many 4-letter words with or without meaning, can be formed out of the letters 1 point of the word, 'LOGARITHMS', if repetition of letters is not allowed? *



2520

12. In how many different ways can the letters of the word 'MATHEMATICS' be 1 point arranged so that the vowels always come together? *



13. In how many different ways can the letters of the word 'OPTICAL' be arranged so 1 point that the vowels always come together? *

0 12	0		
0 72	0		
0 43	20		
21	60		

14. What is the number of possible words that can be made using the word "EASYQUIZ" such that the vowels always come together? *

1 point

\bigcirc) 120			
\bigcirc	720			
$oldsymbol{O}$	2880			

15. What is the number of possible words that can be made using the word "QUIZ" such 1 point that the vowels never come together? *

\bigcirc	8	
$oldsymbol{O}$	12	
0	16	
\bigcirc	24	

16. How many words can be made from the word "APPLE" using all the alphabets with 1 point repetition and without repetition respectively? *

	1024, 60
\bigcirc	60, 1024
0	1024, 1024
\bigcirc	240, 1024

17. How many ways a 6 member team can be formed having 3 men and 3 ladies from a 1 point group of 6 men and 7 ladies? *

	700		
0	720		
0	120		
\bigcirc	500		

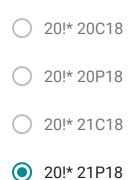
18. In how many ways can an interview panel of 3 members be formed from 3 engineers, 1 point 2 psychologists and 3 managers if at least 1 engineer must be included? *

30
15
46
45

19. How many 4-digit numbers can be formed from the digits 1, 2, 3, 4, 5, 6 and 7 which 1 point are divisible by 5 when none of the digits are repeated? *



20. In how many ways can 20 boys and 18 girls make a queue such that no two girls are 1 point together? *



21. There are 5 floating stones on a river. A man wants to cross the river. He can move 1 point either 1 or 2 steps at a time. Find the number of ways in which he can cross the river? *

0 1	1		
0 1	2		
1	3		
0 1	4		
	t of = horror and t	 	

22. Out of 7 boys and 4 girls, how many queues of 3 boys and 2 girls can be formed? * 1 point

\bigcirc	120
	25200
0	24800
\bigcirc	1440

23. Out of 6 engineers and 4 doctors, how many groups of 4 professionals can be formed 1 point such that at least 1 engineer is always there? *

129
109
229

209

24. In how many different ways can the alphabets of the word 'SCORING' be arranged ~ 1 $^{\rm point}$ so that the vowels always come together? *

0 120	
720	
240	
1440	
25. The value of 75C2 is: *	1 point
0 1215	
0.0015	
2315	
2775	
0 1675	
Thank You!!!	

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