## (Minor Test - IV)

Date: 30/06/2019

## Test ID- 452

Marks :45

	Business Economi	cs, Statistics, logical reasonir	ıg,	Mathematics	and	Commercial Knowledge	
1.	A Supreme Court Bench consists of 5 judges. In how many ways, the bench can give a majority division?		KIND THINK	(a) 10°	ment which think black part	(b) 6 <sup>10</sup>	
				(c) <sup>10</sup> C <sub>6</sub>		(d) <sup>10</sup> P <sub>6</sub>	
2.	(a) 10	) 10 (b) 5		7 books are to be		e, arranged in such a way so	
	(c) 15	(d) 16		that two particular last place. Final th		books are always at first and e number of arrangements.	
	In how many ways can the letters of the word FAILURE be arranged so that the consonants may occupy only odd positions?			(a) 60	(	b) .120	
				(c) 240	(	d) 480	
3.	(a) 576	(b) 476	10	10. Find the number of		of arrangements in which the	
	(c) 376 (d) 276 The value of $\sum_{r=1}^{5} {}^{5}C_{r}$ is :			letters of the word 'MONĎAY' be arrange that the words thus formed begin with 'M do not end with 'N'.		MONDAY' be arranged so	
						romos bogin mar m una	
	(a) 29	(b) 31		(a) 720	(i	o) 120	
	(c) 35	(d) 26		(c) 96	((	d) None	
4.	Find the number of combinations of the letters of the word COLLEGE taken four together:			11. $(n + 1)! = 20 (n - 1)!$ , find n			
	(a) 18	(b) 16.		(a) 6	<i>i</i> (	b) 5	
	(c) 20	(d) 28	.48	(c) 4	(0	d) 10	
5.	How many numb be formed with th	ers greater than a million can e digits 4, 5, 5, 0, 4, 5, 3?	12	2. Six points are quadrilaterals	e on a c that c	circle. The number of an be formed are:	
Ο,	(a) 260 (b) 360 COMMERCE AC.			E(a) 30	(	b) 360	
	(c) 280	(d) 380		(c) 15	Sec. of	d) None of the above	
6.	There are three blu green balls. In he arranged in a row	ow many ways can they be	13	made out of	15 pla	team of 11 players can be yers if one particular player d in the team.	
	(a) 26,720	(b) 27,720		(a) 364		(b) 728	
	(c) 27,820	(d) 26,620		(c) 1,001		(d) 1,234	
7.	Six seats of articled clerks are vacant in a 'Chartered Accountant Firm'. How many different batches of candidates can be chosen out of ten candidates?		1	4. There are 1 Yes or No. Answered?	2 ques How	stions to be Answered to be many ways can these be	
				(a) 1024	(b) 2	048	
	(a) 216	(b) 210		(c) 4096		(d) None	
	(c) 220	(d) None	1	5.A polygon ha	A polygon has 44 diagonals then the number of its sides are:		
8.	How many six dig formed by using 1	it telephone numbers can be 0 distinct digits?		(a) 8		(b) 9	

	A andemy. Sul	ch Sagar,Street of	Chokrika Bhawan	Bajaj Road,SIKAR, 8038332700 f words which can be formed by ord 'ALLAHABAD' is:			
Aastha A Comn (c) 10	(d) 11		letters of the w	ord 'ALLAHABAD' is:			
	vays of shaking han shaking hands to ea	ds in a group of ach other are:	(a) 7560	(b) 3780			
(a) 45	(b) 54		(c) 30240	(d) 15120			
(c) 90 (d) 10		(SE)	1	f triangle that can be formed by vertices from a set of 12 points, lie on the same straight line, is:			
17. If six times the number of permutations of 'n' items taken 3 at a time is equal to seven times the number of permutation of (n - 1) items taken 3 at a time, then the value of 'n' will be:			(a) 185 (c) 115	(b) 175 (d) 105			
(a) 7	(b) 9						
(c) 13	(d) 21	4	25.lf $^{1000}C_{98} = ^{999}C_{97}$	+*C <sub>901</sub> , tind x :			
18. A person	has ten friends	of whom six are	(a)999	(b) 998			
relatives. If of them ar	f he invites five gues e his relatives, then	tes five guests such that three latives, then the total number	(c) 997	(d) 1,000			
of ways in (a) 30	which he can invite (b) 60	them are:	26. The sum of ail and 1000 which	natural numbers between 100 ch are multiple of 5 is:			
(c) 120	(d) 75		(a) 98,450	(b) 96,450			
the number persons ca is to include (a) 180	6 men and 4 wome er of ways in which an be formed of ther de at least 2 women (b) 186	a committee of 5 n, if the committee	last term is 14	(d) 95,450 n A P, whose first term is - 4 and l6 is 7171. Find the value of n. (b) 100 + (d) 102			
	mum number of po		28. $\sum n^2$ define	es:			
(a) 2	(b) 20		(a) $\frac{n(n+1)(2n+1)}{6}$	(b) $\frac{n(n+1)}{2}$			
(c) 90	(d) 180		(c) $\left[\frac{n(n+1)}{2}\right]^2$	(d) None of these			
	The number of ways in which 4 persons car occupy 9 vacant seats is:			29. If $a^{1/x} = b^{1/y} = c^{1/z}$ and a, b, c are in G.P; the x, y, z are in :			
(a) 6048	(b) 3024		(a) A.P.	(b) G.P.			
(c) 1512	(d) 4536		(c) Both (a)	) & (b) (d) None			
22. The number of parallelograms, formed from a set of six parallel lines intersecting another set of four parallel lines is:  30. Find the sum to n terms of the series:  777 + to n terms:							
(a) 360	(b) 90	3.3c ( 10)	(a) $\frac{7}{5}$ (10 <sup>n+1</sup>	$-10) - \frac{7n}{9}$ (b) $(10^{n+1} - 10) + \frac{7n}{9}$			

(c) 180

(d) 45

(c)  $(10^{n+1} - 10) - \frac{7n}{9}$  (d)  $(10^{n+1} - 10) + \frac{7n}{9}$ 

Aastha A Comme	erce Academy, Sukh Sagar,Street	of Chokrika Bhawan	Bajaj Road,SIKAR, 80:	58352760		
31. If the sum of n	terms of an A.P. is (3n² - n) and its	28 The sum of all	two Digit odd numbers	SIS		
common differ	ence is 6, then its first term is:	(a) 2475	(b) 2575			
(a) 3	(b) 2	(c) 4950	(d) 5049			
(c) 4	(d) 1	39. If 8 <sup>th</sup> term of a terms is:	n A.P is 15, then sum	of its 15		
32. Find the sum of the series :						
2 + 7 + 12+	297.	(a) 15	(b) 0			
(a) 8970	(b) 8870	(c) 225	(d) 225/2			
(c) 7630	(d) 9875	40.The first term of and sum of infir	40. The first term of a G.P. where second term is and sum of infinite term is 8 will be:			
33. The first, seco in G.P. and the term of A.P. is:	nd and seventh term of A.P. are common difference is 2, the 2nd	(a) 6	(b) 3			
	A	(c) 4	(d) 1			
(a) 5/2	(b) 2		-2³+3³+4³+ +m³ i	s equal		
(c) 3/2 34. If a, b, c are in A	(d) 1/2 A.P. and x, y, z are in G.P, then the	to: (a) $\left[\frac{m(m+1)}{m(m+1)}\right]^{3}$ (c) $\left[\frac{m(m+1)}{2}\right]^{2}$	(b) $\frac{m(m+1)(2m+1)}{6}$ (d) None of thes	se.		
value of x <sup>(b-c)</sup> .y <sup>(c)</sup>	-a). Z <sup>(a-b)</sup>	42. If x, y, z are the t	42. If x, y, z are the terms in G.P. then the terms x2			
(a) 1	(b) 0	$y^2$ , $xy + yz$ , $y^2 + z^2$ are in:				
(c) b(c - a)	(d) None	(a) A.P.	(b) G.P.			
$5.1f x = 1 + \frac{1}{3} + \frac{1}{3^2} + \frac{1}{$		(c) H.P.	(d) None of the	se.		
$y = 1 + \frac{1}{4} + \frac{1}{4^2} + \dots$		43.If S be the sum, of reciprocals	P the product and R is to of n-terms in G.P then	the sum P²Rn =		
Find xy.	A COMMERCE AG	CADEMY	(h) C0			
(a) 2	(b) 1	(a) U	(b) S <sup>n</sup>			
(c) 8/9	(d) ½	(c) S <sup>-2n</sup>	(d) S-n			
	2) are in A.P. Find the value of x	44.] If a, b, c are i then the value	n Arithmetic Progressi of a – b + c is:	on (A.P.),		
(a) 2	(b) 3	(a) a	(b) -b			
(c) 4	(d) 5	(c) b	(d) c			
Divide 144 into th	nree parts which are in AP and lest is twice the smallest, the	$45.lf \frac{1}{b+c}, \frac{1}{c+a}, \frac{1}{a+b}$	are in arithmetic pro	ogression		
such that the larg smallest of three i	numbers will be :	then as, os,	then a2, b2, c2, are in			
	(b) 36	(h) Coometri	(a) Arithmetic Progression			
a) 48 c) 13	(d) 32	(c) Both in arithmetic and geometric Progr (d) None of these.				
-7 :-		(-)				

## All The Best