

Mathematics FA Part 1 Online Test

Sr	Questions	Answers Choice
1	If ${}^nP_2 = 30$ then $n =$:	A. 5 B. 6 C. 2 D. 3
2	Numbers are formed by using all the digits 1, 2, 3, 4, 5, 6 on digit being repeated, then the numbers which are divisible by 5 are:	A. 110 B. 120 C. 122 D. 124
3	How many different number can be formed by taking 4 out of the six digits 1, 2, 3, 4, 5, 6:	A. 360 B. 120 C. 366 D. none of these
4	Number of digits multiple of 5 made from the digits 2, 3, 5, 7, 9 is:	A. 5 B. 24 C. 20 D. none
5	No. of signals made by 4 flags of different colors using 2 flags at a time:	A. 6 B. 12 C. 60 D. none
6	No. of signals made by 5 flags of different colors using 3 flags at a time is:	A. 60 B. 15 C. 10 D. None
7	No. of arrangements of the letters of the word plane taking all letters at a time:	A. 5 B. 1 D. none
8	In how many ways two places can be filled by n objects:	A. $n(n-1)$ B. $2!$ C. $n(n+1)$ D. None
9	No. of selection of n different things out of n is:	A. 1 B. n C. $n!$ D. none
10	The factorial of positive integer is:	A. rational no. B. positive integer C. real no. D. none
11	For a positive integer n :	A. $(n+1)! = (n+1)n!$ B. $(n+1)! = (n+1)(n-1)!$ C. $n! = n(n+1)!$ D. none of these
12	$n!$ stands for:	A. product of first natural numbers B. sum of n natural numbers C. product of n integers D. none of these
13	Zero cannot be a term of:	A. A.P and G.P B. G.P and H.P C. A.P and H.P D. only H.P
14	If S is the H.M between 2 and b then $b =$:	A. -10 B. 10 C. 7 D. 5
15	The reciprocal of the terms of A.P. form:	A. A.P B. G.P C. H.P D. none of these

16	A sequence of numbers whose reciprocal form an arithmetic sequence, is known as:	A. arithmetic sequence B. geometricsequence C. harmonicsequence D. none of these
17	The series $2 + 2 + 2 + \dots$ is:	A. divergent B. convergent C. oscillatory D. none of these
18	A geometric series is convergent only if:	A. $ r > 1$ B. $ r \leq 1$ C. $ r = 1$ D. none of these
19	The product of three G.Ms between 1 and 16 is:	A. 32 B. 64 C. 128 D. 16
20	If there are six G.Ms between 3 and 284 then $G_4 =$	A. 24 B. 48 C. 12 D. 6