11th Class FA Mathematics Chapter 7 Online Test

Sr	Questions	Answers Choice
1	Sequences are also called:	A. Series B. Progressions C. Means D. Convergence
2	A function whose domain is the set of natural numbers is called the:	A. series B. sequence C. means D. convergent
3	A sequence is denoted by:	B. {a_n} C. a_n D. a₁ + (n-1) d
4	Domain of finite sequence is:	A. set of natural numbers B. subset of N C. R D. none
5	An infinite sequence has no:	A. nth term B. last term C. sum D. none
6	What is called the arrangement of numbers formed according to some definite rule ?	A. arithmetic sequence B. geometricsequence C. sequence D. none of these
7	Fifth term of the sequence 2, 6, 11, 17.	A. 24 B. 41 C. 32
8	The next term of the sequence 1, 6, 20, 56, ... is:	A. 112 B. 144 C. 212 D. none
9	The next term of the sequence-1, 2, 12, 40, ...is:	A. 112 B. 212 C. 144 D. none
10	What is the next term in the sequence 10, 7, 4, 1.....?	A. 2 B. -2 C. -3 D. none of these
11	What is called the difference between two consecutive terms of an arithmetic sequence ?	A. common ratio B. common difference C. common element D. none of these
12	Two A.Ms. between 3 and 9 are:	A. 3. 6 B. 5, 7 C. 6, 12 D. 3, 9
13	Arithmetic series is only possible if:	A. |d| = 1 B. |d| < 1 C. |d| > 1 D. none
14	What is the general term of the sequence 2, 4, 6, 8, ... ?	A. 2n B. n + 1 C. 2n² D. none of these
15	What is the general term of the geometric sequence -1, 1, -1, 1 ..... ?	A. (-1)ⁿ B. (1)ⁿ C. (-1)ⁿ⁻¹ D. none of these
		A. 3

16	If $a_n = (n + 1)\, a_{n-1}$, $a_1 = 1$, second term of the sequence is:	B. 1 C. 2 D. 4
17	If $a_{n-1} = 2n - 3$ then a_{n+1} =	A. 2n - 1 B. 2n + 1 C. 2n + 3 D. none
18	If $a_{n-3} = 2n - 5$ then a_n =	A. 2n-1 B. 2n+1 C. 2n+3 D. none
19	What is the common difference of the sequence 11, 5, -1, ... ?	A. 6 B. -6 D. none of the foregoing numbers
20	In an A.P.$a_3 = 12$ and $a_7 = 32$ then d = :	A. 5 B. 3 C. 7 D. 9
21	A.M between x - 3 & x + 5 is _____:	A. x + 1 B. x - 1 C. 2x + 2 D. none
22	A.M between 1 + x - x^2 and 1 + x + x^2 is:	A. 1 + x² B. 1 + x C. 2 D. none
23	The sum of 10 A.Ms between 3 and 47 is:	A. 50 B. 250 C. 100 D. 500
24	Sum of all odd numbers between 100 and 200 is:	A. 6200 B. 6500 C. 3750 D. 7500
25	Sum of all positive integral multiples of 3 less than 100 is:	A. 950 B. 760 C. 1230 D. 875
26	Sum of integral multiples of there between 4 and 22 is:	A. 81 B. 75 C. 211 D. none
27	A clock strikes once when its hour hand is at one, twice when it is at two, and so on. How many times does the clock strike in ten hours ?	A. 55 B. 78 C. 66 D. 46
28	Question Image	A. A.P B. G.P C. H.P D. none
29	7th term of G.P 3, 6, 12 ..... is:	A. 512 B. 192 C. 48 D. 96
30	Which number cannot be a term of a geometric sequence ?	A. 0 B. 1 C. -1 D. r
31	Reciprocals of the terms of the geometric sequence form:	A. A.P B. G.P C. H.P D. none
32	The series 3 + 33 + 333 + ... is:	A. A.P B. G.P C. H.P D. none of these
33	G.M between -2i and 8i is:	A. 4 or -4 B. 4i or -4i C. 2 or -2 D. none
		A. 24

34	If there are six G.Ms between 3 and 284 then G_4 =	B. 48 C. 12 D. 6
35	The product of three G.Ms between 1 and 16 is:	A. 32 B. 64 C. 128 D. 16
36	A geometric series is convergent only if:	A. | r | > 1 B. | r | < 1 C. | r | = 1 D. none of these
37	The series 2 + 2 + 2 ..... is:	A. divergent B. convergent C. oscillatory D. none of these
38	A sequence of numbers whose reciprocal form an arithmetic sequence, is known as:	A. arithmetic sequence B. geometricsequence C. harmonicsequence D. none of these
39	The reciprocal of the terms of A.P. form:	A. A.P B. G.P C. H.P D. none of these
40	If S is the H.M between 2 and b then b = :	A. -10 B. 10 C. 7 D. 5
41	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
42	n! stands for:	A. product of first natural numbers B. sum of n natural numbers C. product of n integers D. none of these
43	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
44	The factorial of positive integer is:	A. rational no. B. positive integer C. real no. D. none
45	No. of selection of n different things out of n is:	A. 1 B. n C. n! D. none
46	In how many ways two places can be filled by n objects:	A. n(n-1) B. 2! C. n(n+1) D. None
47	No. of arrangements of the letters of the word plane taking all letters at a time:	A. 5 B. 1 D. none
48	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
49	No. of signals made by 4 flags of different colors using 2 flags at a time:	A. 6 B. 12 C. 60 D. none
50	Number of digits multiple of 5 made from the digits 2, 3, 5, 7, 9 is:	A. 5 B. 24 C. 20 D. none
51	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

52	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
53	If ${}^{n}P_{2} = 30$ then n = :	A. 5 B. 6 C. 2 D. 3
54	No. of arrangements can be made of 4 letters a, b, c, d taken 2 at a time ?	A. 8 B. 12 C. 10 D. 14
55	No. of arrangements of the letters of the word PAKISTAN can be made, taken all together ?	A. 21160 B. 20160 C. 20170 D. 20016
56	No. of arrangements of the letters of the word PAKPATTAN can be made, taken all together ?	A. 15130 B. 15120 C. 1512 D. none of these
57	No. of triangles can be formed by joining the vertices of the polygon having 12 sides ?	A. 202 B. 220 C. 110 D. none of these
58	No. of triangles can be formed by joining the vertices of the polygon having 5 sides ?	A. 10 B. 15 C. 20 D. none of these
59	The number of diagonals of a polygon with n sides is:	D. none of these
60	No. of diagonals can be formed by joining the vertices of the polygon having 5 sides ?	A. 5 B. 15 C. 51 D. 10
61	No. of diagonals can be formed by joining the vertices of the polygon having 12 sides ?	A. 70 B. 54 C. 70 D. 73
62	A key ring is an example of:	A. permutation B. circulation permutation C. combination D. none
63	Number of ways of arranging 5 keys in a circular ring is:	A. 12 B. 24 C. 6 D. 5
64	No. of necklaces can be made from 7 beads of different colors ?	A. 360 B. 120 C. 60 D. 70
65	The number of ways in which fiver persons can sit at a round table is:	A. 4! B. 5! D. none of these
66	The value of ${}^{5}C_{2}$ is:	A. 1 B. 10 C. 20 D. 30
67	${}^{n}C_{4} = {}^{n}C_{8}$ then n = :	A. 4 B. 12 C. 8 D. 6
68	If S is a sample space and event E is S then P(E) is:	A. 0 B. 1 C. >1 D. none
69	Question Image	A. 0 B. -1 C. >1 D. none
70	Probability of a certain event is:	A. 0 B. 1 C. >1

		C. >1 D. ∞
71	The probability that a number selected from the numbers 1, 2, 3, 4, 5, ..., 16 is a prime number is:	
72	A die is rolled. The probability that the dots on the top are greater than 4 is:	A. 5, 6 D. 1
73	Probability of an impossible event is:	A. 0 B. 1 C. -1 D. ∞
74	A dice is thrown. The probability to get an odd number is;	A. 1 D. none of these
75	A dice is thrown. The probability to get an even number is:	A. 1 D. none of these
76	Question Image	A. 4 B. 6 C. 8 D. 10
77	Tickets numbered 1 to 20 are mixed up and then a ticket is drawn at random. What is the probability that the ticket drawn bears a number which is a multiple of 3 ?	D. none of these
78	In a simultaneous throw of two dice, The probability of getting a total of 7 is:	
79	In a simultaneous throw of two dice, The probability of getting sum 3 or 11 is:	D. none
80	A dice is rolled, the probability of getting a number which is even or greater than 4 is:	D. none of these
81	One card is drawn at random from a pack of 52 cards. The probability that the card drawn a king is:	D. none of these
82	Question Image	