Mathematics Fsc Part 1 Online Test

Sr	Questions	Answers Choice
1	A.M between x - 3 & x + 5 is _____ :	A. x + 1 B. x - 1 C. 2x + 2 D. none
2	In an A.P. a_3 = 12 and a_7 = 32 then d = :	A. 5 B. 3 C. 7 D. 9
3	What is the common difference of the sequence 11, 5, -1, ... ?	A. 6 B. -6 D. none of the foregoing numbers
4	If a_{n-3} = 2n - 5 then a_n =	A. 2n-1 B. 2n+1 C. 2n+3 D. none
5	If a_{n-1} = 2n - 3 then a_{n+1} =	A. 2n - 1 B. 2n + 1 C. 2n + 3 D. none
6	If a_n = (n + 1) a_{n-1}, a_1 = 1, second term of the sequence is:	A. 3 B. 1 C. 2 D. 4
7	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
8	What is the general term of the sequence 2, 4, 6, 8, ... ?	A. 2n B. n + 1 C. $2n^2$ D. none of these
9	Arithmetic series is only possible if:	A. $|d|$ = 1 B. $|d|$ < 1 C. $|d|$ > 1 D. none
10	Two A.Ms. between 3 and 9 are:	A. 3. 6 B. 5, 7 C. 6, 12 D. 3, 9
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	What is the next term in the sequence 10, 7, 4, 1...........?	A. 2 B. -2 C. -3 D. none of these
13	The next term of the sequence-1, 2, 12, 40, ...is:	A. 112 B. 212 C. 144 D. none
14	The next term of the sequence 1, 6, 20, 56, ... is:	A. 112 B. 144 C. 212 D. none
15	Fifth term of the sequence 2, 6, 11, 17.	A. 24 B. 41 C. 32
		A. arithmetic sequence

16	What is called the arrangement of numbers formed according to some definite rule ?	B. geometricsequence C. sequence D. none of these
17	An infinite sequence has no:	A. nth term B. last term C. sum D. none
18	Domain of finite sequence is:	A. set of natural numbers B. subset of N C. R D. none
19	A sequence is denoted by:	B. $\{a_n\}$ C. a_n D. $a_1 + (n-1) d$
20	A function whose domain is the set of natural numbers is called the:	A. series B. sequence C. means D. convergent