

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	
2	A sequence is a function whose domain is	A. N B. Subset of N C. R D. None of these
3	For $f(x) = x^2 + px + 1$, if $f(3) = 3$ then $P =$	A. 3/7 B2/5 C7/5 D7/3
4	0! =	A. 0 B. 1 C. 2 D. Not defined
5	If x^3 + ax^2 - a^2x - a^3 is divided by x + a , then the remainder is	A. 0 B. a ³ C. 2a ³ D2a ³
6	Question Image	
7	Question Image	A. 4 B. 6 C. 8 D. 10
8	Question Image	A. A = x, B = 1 B. A = 0, B = 2 C. A = -1, B = 1 D. A = x-1, B = x+1
9	In R the right cancellation property w.r.t. addition is	
10	Question Image	A. 7 B. 5 C. 6 D. None of these
11	Question Image	A. 1 + tan ² x + c B. tan x + c Ctan x + c D. cot x + c
12	The first three terms in the expansion of $(1 + x)^3$ are	A. 1 + 3x +6x ² B. 1- 3x + 6x ² C3 -3x -6x ² D. 1- 3x -6x ²
13	A number A is called the arithmetic mean between a and b if a, A, b is	A. Arithmetic sequence B. Geometric sequence C. Harmonic sequence D. Arithmetic sequence
14	sin(π+θ)=;	A. $sin\theta$ B. $cos\theta$ C. $-sin\theta$ D. $-cos\theta$
15	Question Image	
16	π is the ration of	A. Area of a circle to its diameter B. Area of a circle to its radius C. Circumference of a circle to its diameter D. Circumference of circle to its radius
17	An unbiased die is thrown. Then the probability of getting a prime is	A. 1/2 B. 2/3 C. 3/4 D. None of these

20	In the expansion of $(a + x)^n$ the sum of exponents of a and x in each term of the expansion is	A. n + 1 B. n - 1 C. n D. 2n
9	The positive value of k for which the equation $x^2 + kx + 64 = 0$ has one of the roots 0	A. 4 B. 64 C. 8 D. All values of k
8	The number of permutation that can be formed from the letters of the word OBJECT is	A. 700 B. 600 C. 720 D. 620