

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	A. $\cos x$ B. $-\sin x$ C. $-\cos x$ D. $\tan x$
2	Arithmetic mean between a and b is	
3	If a 1-1 correspondence can be established b/w two sets A and B, then they are called	A. Equal sets B. Equivalent sets C. Overlapping sets D. None of these
4	If one end of the diameter of the circle $x^2 + y^2 - 5x + 3y - 22 = 0$ is (3,4) the other end is:	A. (2,7) B. (-2,-7) C. (-2,7) D. (2,-7)
5	The point _____ is in the solution of the inequality $2x + 3y < 5$	A. (1,1) B. (2,2) C. (0,1) D. (0,2)
6	Question Image	A. 1 B. -i C. i D. 0
7	$\sin^2 \alpha \cos^2 \alpha =$	A. -1 B. 0 C. 1 D. None of these
8	How many different 5-digit even numbers are possible form digit 1,2,4,6,8	A. $4 : 4!$ B. $4!$ C. $5!$ D. $4! + 4!$
9	The range of inequality $x + 2 > 4$ is	A. (-1, 2) B. (-2, 2) C. (1, >i>∞</i> D. None
10	$x^2 + x - 6 = 0$ is	A. An equation B. An identity C. A polynomial D. None of these
11	The series obtained by adding the terms of a geometric sequence is called	A. Infinite series B. Arithmetic series C. Geometric series D. Harmonic series
12	Question Image	
13	$\tan^{-1}(1/4) + \tan^{-1}(2/9)$ is equal to	A. $\frac{1}{2} \cos^{-1}(3/5)$ B. $\frac{1}{2} \sin^{-1}(3/5)$ C. $\frac{1}{2} \tan^{-1}(3/5)$ D. $\tan^{-1} 1/2$
14	$f(x) = 3x/x^2 + 1$ is:	A. an even function B. an odd function C. an even and implicit function D. neither even nor a odd
15	What is the period of $6 \sin x$?	A. π B. $-\pi$ C. $\pi/2$ D. 2π

16	Question Image	A. 8 B. 1/56 C. 56 D. None of these
17	Question Image	D. none of these
18	Question Image	A. 1 B. 0
19	$\sin h x =$ _____	
20	The negative square root of 9 can be written as:	A. $-\sqrt{9}$ B. $\sqrt{9}$ C. $\sqrt{18}$ D. $-\sqrt{18}$