

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The eccentricity of the parabola y^2 = -8x is	A2 B. 2 C1 D. 1
2	Question Image	
3	Question Image	A. A B. B C. U D. None of these
4	Derivative of sin x w.r.t. sin x is	A. 0 B. 1 C. sin x D. cos x
5	The slope of the normal at (5 cos, 0, 5 sin 0) to the circle. $x^2+y^2 = 25$ is:	A. tan□ B. cos□ /sin□ Ccot□ D tan□
6	If the roots of 3x2+kx + 12 = 0 are equal then k =	
7	The additive inverse of 2/3 is	A. 3/2 B2/3 C3/2 D. 0
8	Every irrational number is	A. A real number B. A prime number C. A natural number D. An integer
9	The process of finding the unknown elements in triangle is called the	A. solution of the triangle B. Mean differnece C. Engineering distance D. angle of depressin
10	Question Image	
11	A non-homogeneous linear system AX = B has no solution if	A. A = 0 B. A ≠ 0 C. Rank (a) = no of variables D. Rank > no of variables
12	Which of the following is a vector.	A. distance B. temperature C. energy D. acceleration
13	aquantity is one that possesses both magnitude and direction.	A. Scalar B. Vector C. Segment D. None of these
14	120°=	
15	Question Image	A. cos x B. sec x tan x C. sec ² x Dcosec ² x
16	Question Image	
17	(a+bi) - (c+di)=	A. (a+b) = (c+d) B. (a+c) + i(b+d) C. (a - c) + (c-d)i D. (a - c)+ (b - d)i
18	Question Image	
10	When rational fraction is senarated into nartial fractions, the result is	A. an identity B. A fraction

Iσ	venen rational naction is separated into partial nactions, the result is	C. A partial sum D. Improper fraction
20	The number of terms in the expansion of $(a + b)^9$ is	A. 10 B. 11 C. 9 D. 12