

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The set of all points in the plane that are equally distant from a fixed point to called a	A. Parabola B. ellipse C. Hyperbola D. Circle
2	How many signals can be given by 5 flags of different colours, using 3 flags at a time	A. 120 B. 60 C. 24 D. 15
3	If z_1 = 2 + 6i and z_2 = 3 + 7i, then which expression defines the product of z_1 and z_2 ?	A. 36 + (-32)i B36 + 32i C. 6 + (-11)1 D. 0, +(-12)i
4	Question Image	
5	Every natural number is	A. A prime number B. An irrational number C. An integer D. An even number
6	The multiplicative inverse of 2/3 is	A. 3/2 B2/3 C3/2 D. 1
7	Question Image	D. None of these
8	If I, m, n are the d.c.'s of a line, then	A. I2+ m2+ n2= 0 B. I2+ m2+ n2= 1 C. I + m + n = 1 D. I = m = n = 1
9	The modulus of a vector_i-i+ k is:	A. √3 B. 1 C. √2 D. ∞
10	Question Image	A. The law of consines B. The law of sines C. The law of tangents D. None of these
11	In R, the multiplicative identity is	A. 0 B. 1 C1 D. None
12	The value of cos(cos-1 1/2) is	A. 1/2 B. √3/2 C1/2 D. 1/√2
13	An equation containing at least one derivative of a depends variable with respect to independent variable is a (an)	A. Implicit equationB. Differential equationC. General equationD. None of these
14	Which of the following ordered pair is a solution of the inequality x+2y<6?	A. (2,3) B. (2,2) C. (6,0) D. (1,1)
15	Question Image	A. Closure law of addition B. Closure law of multiplication C. Commutative law of addition D. Commutative law of multiplication
16	Identity w.r.t intersection in a power set of any set is	A. ∅ B. Set itself C. Singleton set D. {0}
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17	The additive inverse of a matrix A is	D. None of these
18	Maximum value of z =15x +20y subject to 3x+ 4y≤ 12,x,y≥ 0 is given by	A. 46 B. 60 C. 50 D. 70
19	Question Image	
20	If a_1 = 3, r = 2, then the nth term of the G.P. is	A. 2.3 ⁿ⁻¹ B. 3.2 ⁿ C. 3.2 ⁿ⁺¹ D. 3.2 ⁿ⁻¹