Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	0 (zero) is	A. An irrational number B. A rational number C. A negative integer D. A positive number
2	A monoid (G, *) is said to be group if	A. have identity element B. is commutative C. have inverse of each element D. None of these
3	Question Image	A. -sinθ B. cosθ C. sinθ D. -cosθ
4	The set {-1,1} is closed under the binary operation of	A. Addition B. Multiplication C. Subtraction D. Division
5	Which of the following is a scalar.	A. electric field B. magnetic field C. weight D. mass
6	The symbol of irrational is	A. W B. N C. Q D. Q'
7	For any positive integer n	A. ABn = Bn A ⇔ AB = BA B. ABn = Bn A⇔ A,B are square matrices and AB = BA C. ABn = BnA⇔ A + B D. ABn = BnA ⇔ A and B are square matries
8	Question Image	A. 6 B. 360 C. 120 D. 24
9	The equation of line passing through intersection of line x = 0 and y = 0 and the point (2,2) is	A. y = x B. y = x - 1 C. y = x + 1 D. y = x + 1
10	Question Image	
11	Question Image	A. perpendicular vectors B. parallel vectors C. concurrent vectors D. none of these
12	If x < y, 2x = A, and 2y = B, then	A. A = B B. A < B C. A < x D. B < y

13	The extraction of cube root of a given number is a	A. Unary Operation B. Binary Operation C. Relation D. None of these
14	The period of cot 8x is	A. π/10 B. 9π/7 C. π/9 D. π/8
15	1 degree = _____	A. 0.00175 rad B. 0.175 rad C. 0.0175 rad D. 1.75 rad
16	Question Image	A. 2x cos x2 B. 2sinxcosx C. - sin x2 D. 2x sin x2
17	If $d_1$is the distance between (0,0) and (1,2) and $d_2$is the distance between (0,0) and (-1,-2) the	A. d₁< d₂ B. d₁> d₂ C. d₁= d₂ D. none of these
18	Associative law of multiplication	A. ab - ba B. a(bc) = (ab) c C. a(b + c) = ab +ac D. (a +b)c = ac + bc
19	A non-terminating non_recurring decimal represents an	A. Irrational no B. Both a & c C. Rational no D. None of these
20	Question Image	