Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	A. A B. -A C. A^t D. A⁻
2	Question Image	A. An empty set B. Universal set C. A singleton set D. None of these
3	If $x^3 + 4x^3 - 2x + 5$ is divided by x - 1, then the reminder is	A. 8 B. 6 C. 4 D. None of these
4	If $f(x) = x^2$ then f(0) is	A. 0 B. 1 C. 2 D. none of these
5	Question Image	
6	The set of complex numbers forms	A. Commutative group w.r.t addition B. Commutative group w.r.t multiplication C. Commutative group w.r.t division D. Non commutative group w.r.t addition
7	A dice is rolled. The probability that the dots on the top are greater than 4 is	A. 1/6 B. 1/3 C. 1/2 D. 1
8	Derivative of x^3 w.r.t x is	A. 0 B. 1 C. 3x² D. x³
9	Question Image	
10	Question Image	
11	Question Image	
12	In quadratic equation $f(x) = ax^2$, if a >0, then the graph of parabola	A. Opens up B. Opens down C. close up D. symmetric w.r.t.x.axis
13	Question Image	
14	If 0 = R, thenthe additive inverse of a is	A. 1/9 B. ^{1/-9} C. a D. -a
15	3x + 4 = 0 is	A. not inequality B. equation C. identity D. inequality
16	Question Image	A. A = C B. A = B C. B = C D. None of these
17	Period of Cotangent function is	A. π B. -π C. 0 D. -2π
18	Question Image	

19	Which of the following sets has closure property w.r.t. addition	A. { 0 } B. { 1 } C. { 0, -1} D. { 1, -1}
20	The second degree equation of the form Ax2 +By2 +Gx +Fy +C =0 represent hyperbola if	A. A = B≠ 0 B. A≠ B and both are of same sign C. A≠ B both are of opposite sign D. Either A = 0 or B =0