Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The multiplicative inverse of -1 in the set {1-, 1} is	A. 1 B. -1 C. +-1 D. 0
2	Question Image	A. 0 B. 1
3	Question Image	
4	Both the roots of the equation (x - b) (x - c) + (x - c)(x - a) + (x - a)(x - b) = 0 are always	A. Positive B. Negative C. Real D. None of these
5	The matrix A = [aij]1xn is a	A. Vector B. Rectangular matrix C. Column vector D. Square matrix
6	A _____ divides the plane into left and right half planes.	A. Vertical line B. Horizontal line C. Non vertical line D. Inequality
7	pth term of an H.P. is qr and qth term is pr then the rth term of the H.P. is	A. pqr B. 1 C. pq D. pqr²
8	Three points whose position vector a,b,c are collinear	A. axb +b x c+ c x a = 0 B. a,b +b,c +c,a =0 C. a,|a xc| =0 D. a+b+c =0
9	The common point to four standard parabolas	A. Focus B. Centre C. Vertex D. P(x,y)
10	Question Image	
11	The line through the focus and perpendicular to the directrix is called _____ of the parabola	A. axis B. focal chord C. tangent D. latus rectum
12	Question Image	A. Commutative law of multiplication B. Closure law of multiplication C. Associative law of multiplication D. Multiplication identity
13	Question Image	A. an A.P. B. a G.P. C. a H.P. D. None of these
14	A non-terminating non_recurring decimal represents an	A. Irrational no B. Both a & c C. Rational no D. None of these
15	If Sin A = sin B, cos A = cos B, then the value of A in terms of B is	
16	The lines that form the cone are called its:	A. Generation B. Circular cone C. nappes D. conics
17	The number of different ways of describing a set is	A. One B. Two C. Three D. Four

18	Question Image	
19	If x + y + 1 = 0 touches the parabola $y^2=\lambda x$, then λ is equal to	A. 2 B. 4 C. 6 D. 8
20	A prime number can be a factor of a square only if it occurs in the square at least	A. Once B. Thirce C. Twice D. None of these