Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	A bag contains 5 white, 7 red and 5 black balls. If four balls are drawn one by one with replacement, the probability that none is white is	A. (11/16)² B. (5/16)² C. (11/16)⁴ D. (5/16)⁴
2	(ABC)' =	A. CBA' B. CBA C. C'B'A D. C'B'A'
3	The position vector of any point in space is	
4	Which of the following sets has closure property w.r.t. addition	A. { 0 } B. { 1 } C. { 0, -1} D. { 1, -1}
5	Question Image	
6	Question Image	
7	f(x) = ax + b will be a constant function if	A. a = 1 , b = 1 B. a = 1 , b = 0
8	Area of the triangle whose vertices are (2,3),(0,1),(0,0) is	A. 6 B. 2 C. 4 D. 1
9	Question Image	D. none of these
10	tanθ/2	
11	2/9,5/7∈ R,(2|9)(5|7)=10/63∈R this property is called	A. Associative property B. Identity property C. Commutative property D. Closure property w.r.t multiplication
12	The line joining the center of a circle to the midpoint of the chord is	A. Perpendicular to the tnagent B. Perpendicular to the normal C. Perpendicular to the chord D. Perpendicular to the chord
13	$^{n}C_{2}$= exists when n is _____	
14	Let a_1, a_2, a_3, $a_4$and $a_5$be such that a_1, a_2, and $a_3$are in A.P., a_2, $a_3$and $a_4$are in G.P and a_3, $a_4$and $a_5$are in H.P. Then, a_1, $a_3$and $a_5$are in	A. G.P. B. A.P. C. H.P. D. None of these
15	The vertex of the parabola (xsin a -ycos a)2 =4a(xcos a +ysin a) lies at	A. (acos a,asin a) B. (a,0) C. (cos a,sin a) D. (0,0)
16	Every identity matrix is	A. Row-vector B. Scalar C. Column-vector D. All
17	3x + 4 > 0 is	A. equation B. identity C. inequality D. none of these
18	*i* =	A. √1 B. √2 C. √-2 D. √-1
19	Question Image	

20	Question Image