Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The graph of y> 0 is the upper - half of:	A. y-axis B. x-axis C. 1st and 4th quandrant D. 2nd and 3rd quadrant
2	$\sqrt{2}$ is a number	A. Rational B. Irrational C. Even D. Odd
3	The general value of θ satisfying the equation $2 \sin^2\theta - 3 \sin\theta - 2 = 0$ is	
4	Question Image	
5	Every identity matrix is	A. Row-vector B. Scalar C. Column-vector D. All
6	If the matrices A and B are conformable for multiplication then $(AB)^t =$ _____	A. AB B. $A^t B^t$ C. $B^t A^t$ D. $A^t B$
7	Question Image	A. Polynomial of degree 0 B. Polynomial of degree 2 C. Quadratic equation D. None of these
8	The symbol _____ shall be used both for equation and identity	A. \<br\>
9	All letters of the word "AGAIN" are permuted in all possible ways and the words so formed (with or without meaning) are written as in dictionary, then the 50th word is	A. NAAGI B. NAAIG C. IAANG D. INAGA
10	If $k2x2 + 2hxy - 4y2 = 0$ represents two perpendicular lines then	A. k = 2 B. k = ±2 C. k = -2 D. k ≠0
11	Question Image	
12	Question Image	A. 0 B. 1 C. -A D. -1
13	Question Image	
14	Question Image	A. A variable B. A constant C. 0 D. None of these
15	In R, the additive inverse of a is	A. 0 B. 1 C. -a D. 1/a
16	How many comittees of 5 numbers can be chosen from a group of 8 players person when each committee must include 2 particular persons	A. 8! B. 5!3! C. 5! D. 20
17	If a,b,c are three non-coplanar vector then [a +b,b +c,c +a] = _____	A. [a.b.c] B. 2[a,b,c] C. [abc]-2 D. 2[abc]2
18	Question Image	A. Principle of equality of fractions B. Rule for product of fractions C. Golden rule for fractions D. Rule for quotient of fractions

19	Two circle s1: $x^2 + y^2 + 2x - 2y - 7 = 0$: s2: $x^2 + y^2 - 6x + 4y + 9 = 0$	A. Touch externally B. Touch internally C. Intersects each other D. Do not intersects
20	The sum of infinite numbers of terms of an arithmetic series is	A. Finite B. Infinite C. May or may not finite D. None of these