Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	A. 1 B. 2 C. -1 D. 0
2	sin 2 α=	
3	Question Image	
4	The physical quantity which can be specified by a number alongwith unit is called a	A. scalar B. vector C. constant D. none of these
5	Question Image	A. 0 B. 1 C. -1 D. none of these
6	Question Image	A. 2x cos x2 B. 2sinxcosx C. - sin x2 D. 2x sin x2
7	A diagonal matrix in which the diagonal elements are equal is called a	A. Null matrix B. Identity matrix C. Scalar matrix D. Row matrix
8	The central angle of an arc of a circle whose length is equal to the radius of the circle is called the	A. degree B. radian C. minute D. second
9	cotθ= sin 2θifθ=	
10	$\forall$x$\in$(a,b),f(x) is increasing if	A. f'(x) >0 B. f'(x) <0 C. f''(x) >0 D. f''(x) =0
11	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
12	Question Image	
13	Question Image	A. sin h x B. cos h x C. tan h x D. cot h x
14	Question Image	A. a₁+ a₂ B. a²₁+ a²₂
15	Question Image	
16	The next term of the sequence 1, 2, 4, 7, 11, ... is.	A. 15 B. 16 C. 17 D. 18
17	A Series which does not coverage to a Unique sum is called	A. Harmonic Series B. Oscillatroy Series C. Arithmetic Series D. None of these
18	If _a_and _b_are two vectors then a+b =	A. b + a B. b - a C. ab D. a^ b

19	1st four terms of the expansion $(1-x)^{-2}$ are	A. $1 + 2x + 3x^2 + 4x^3$ B. $3x^2 + 2x + 1$ C. $1 + 3x + 4x^2 + 5x^3$ D. None of these
20	Question Image	