Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	A. Diagonal matrix B. Scalar matrix C. Triangular matrix D. Identity matrix
2	If sin$\alpha$and cos$\alpha$are the roots of the equation px^2+ qx + r =0, then	A. p²- q²+ 2pr = 0 B. (p + r)²= q²- r² C. p²+ q²- 2pr = 0 D. (p - r)²= q²+ r²
3	99th term of the series 2 + 7 + 14 + 23 + 34 + ... is	A. 9998 B. 9999 C. 10000 D. None of these
4	Question Image	A. 2x + 3 B. x²+ 3 + c
5	In the interval 0≤ x ≤ π, the sine is	A. Not a function B. Not defined C. Infinity D. Not one-to-one function
6	The line through the centre and perpendicular to the transverse axis is called the	A. Major axis B. Minor axis C. Focal axis D. Conjugate axis
7	If 4 > b or a < b than a = b is a	A. Additive property B. Transitive property C. Trichotomy property of inequality D. None of above
8	A vector with magnitude one is called	A. constant vector B. unit vector C. zero vector D. null vector
9	Tan(α-β)=	
10	If n is a negative integer n! is	A. 1 B. 0 C. Unique D. Not defined
11	Equation of the chord of contact to the tangents drawn from (-3,4) to the circle x2 + y2 = 21	A. -3x + 4y =21 B. 4x - 3x = 0 C. -3x + 4y = 25 D. None of these
12	A point of a solution region where two of its boundary lines intersect, is called	A. Boundary B. Inequality C. Half plane D. Vertex
13	Question Image	
14	Question Image	
15	The probability to get an odd number in a dice thrown once is	A. 1/2 B. 1/6 C. 1/3 D. 2
16	If the cutting plane is parallel to the axis of the cone and intersects both of its nappes, then the curve of intersection is	A. an ellipse B. a hyperbola C. a circle D. a parabola

17	Question Image	A. 0 B. 1 C. 13
18	$\sin^2\alpha\cos^2\alpha=$	A. -1 B. 0 C. 1 D. None of these
19	For any real numbers x,y,xy=o ⇒	A. $x \neq 0 \wedge y \neq 0$ B. x = 0 ∨ y = 0 C. x = 0 D. y = 0
20	Question Image	