

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The number of points of intersection of two curves $y = 2 \sin x$ and $y = 5x^2 + 2x + 3$ is	A. 0 B. 1 C. 2 D. None of these
2	If n is add the expansion $(a + x)^n$ has middle terms	A. 2 B. 3 C. 4 D. 5
3	<div style="border: 1px solid #ccc; padding: 2px; display: inline-block;">Question Image</div>	A. 0 B. 1 D. none of these
4	The zero vector is	A. [0, 0, 0] B. [1, 1, 1] C. [0, 1, 0] D. [0, 0, 1]
5	An ellipse slides between two lines at right angles to one another. The locus of its centre is :	A. a parabola B. an ellipse C. a circle D. a hyperbola
6	The range of the principle cos function is	
7	The distance of the point (1.1) from the origin is	A. 0 B. 2
8	The set of integer is	A. Finite group B. A group w.r.t addition C. A group w.r.t multiplication D. Not a group
9	The number of tangents to the circle $x^2 + y^2 - 8x - 6y + 9 = 0$ which pass through the point (3,-2) is	A. 2 B. 1 C. 0 D. None of these
10	If A is a skew-symmetric matrix of order n and P , any square matrix of order n . prove that $P^t AP$ is	A. Skew-symmetric B. Symmetric C. Null D. Diagonal
11	What is the period of $5 \cot x = ?$	A. π B. $-\pi$ C. $\pi/2$ D. 2π
12	3, 6, 12,..... is	A. A.P. B. G.P. C. H.P. D. None of these
13	Which of the following is a vector.	A. distance B. temperature C. energy D. acceleration
14	$r + 3 > 5$ then which is true	A. $r + 2 \geq 4$ B. $r + 2 \leq 4$ C. $r + 2 = 4$ D. None
15	The tangents drawn from the point P to a circle are real and distinct if	A. P is on the circle B. P is inside the circle C. P is outside the circle D. none of these
16	Root of the equation $3^{x-1} + 3^{1-x} =$ is	A. 2 B. 1 C. 0 D. -1

17	Question Image	
18	202.04 is an example of	A. Recurring decimals B. Non-recurring decimals C. Terminating decimals D. None of above
19	The ratio in which the line $y - x + 2 = 0$ divides the line joining (3,-1) and (8,9) is	A. 2:3 B. -2:3 C. 3:2 D. -3:2
20	Question Image	