

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	A. direction ratios B. direction cosines C. direction angles D. none of these
2	Question Image	
3	The line through the focus and perpendicular to the directrix is called of the parabola	A. axis B. focal chord C. tangent D. latus rectum
4	If $\sin x + \sin^2 x = 1$, then the value of $\cos^{12} x + 3\cos^{10} x + 3\cos^8 x + \cos^6 x + 2\cos^4 x + \cos^2 x - 2$ is equal to	A. 0 B. 1 C. 2 D. sin ² x
5	arPhiset is the of all sets?	A. Subset B. Union C. Universal D. Intersection
6	Question Image	
7	The angle of depression of the point at a distance 70 meters from the foot of the tower from the top of the tower is 45^{\square} . The height of the tower is	A. 37m B. 97m C. 101m D. 70m
8	Question Image	
9	If the lines 2x-3y-1=0,3x-y-5=0 and 3x+py+8=0 meet at a unique point then	A. p = -14 B. p = -1 C. p =0 D. p=12
10	If a_n = 2n -3, write the first four terms	A3, -1, 1, 3 B. 1, 3, 5, 7 C1, 1, 3, 5 D. None of these
11	Question Image	A. Diagonal matrix B. Scalar matrix C. Triangular matrix D. Identity matrix
12	Range of tan x is	A. [-1, -] B. R C. Negative real numbers D. R - {x - 1 < x < 1}
13	The maximum value of 12 $\sin\!\theta$ -9 $\sin^2\!\theta$ is x	A. 3 B. 4 C. 5 D. None of these
14	-2, 1, 4, 7, is	A. Harmonic sequence B. Arithmetic sequence C. Geometric sequence D. Arithmetic series
15	Question Image	D. none of these
16	Question Image	
17	Question Image	
18	Question Image	A. 16 / 7 B. 6 / 17 C. 7 / 16 D. None of these
		A (ac bd)

19	The product of complex numbers (a,b) and (c,d) is	B. (ac-bd, ad+bc) C. (ab,cd) D. (ac+bd,ad-bc)
20	A divides the plane into left and right half planes.	A. Vertical line B. Horizontal line C. Non vertical line D. Inequality